CULTURES OF EXPERTISE ACADEMICS IN EXILE AND THEIR ROLE IN THE FUTURE OF FOOD SECURITY IN SYRIA

Syrian Food Futures Final Project Report

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Executive Summary

The SyrianFoodFutures project aimed to establish a network of diverse expertise between Syrian, Turkish and UK researchers, practitioners and decision-makers so that local cultural and technical knowledge and experience can be incorporated into socio-economic development and reconstruction programmes to ensure a successful transition away from humanitarian provision of short-term food supplies and agriculture inputs towards long-term contingency planning for food security and adequate nutrition.

Sustainable Development Goal attainment is severely compromised not only in fragile and conflict-affected countries (FCAS, such as Syria) but also in Lower- and Middle-Income Countries (LMICs) which host their refugee populations (such as Turkey, Jordan and Lebanon). Under conditions of protracted conflict, food production, availability, distribution and consumption are compromised with attendant effects on food insecurity and malnutrition. There is also extensive loss of in-country human and intellectual capital as academics are displaced from high-risk areas as a matter of safety and security. Local knowledge, connection and expertise offered by Syrian academics in exile in the Levant is a major part of Syria's intellectual and cultural capital that has so far, been largely ignored by the intelligence gathering and analysis activities informing humanitarian responses to the crisis. Furthermore, certain cultures of expertise (such as the arts and humanities) are often de-prioritised by decision-makers and funding bodies in favour of investments in projects which improve physical capital (infrastructure, technology and agricultural inputs) and natural resources to address immediate humanitarian food and health security needs. For example, displaced Syrian agricultural communities hold considerable knowledge about sustainable farming, but their oral and embodied traditions have been disrupted by conflict and flight, and are seldom recognised by development actors. As a result, relevant, context-specific intelligence and expertise may be neglected or excluded from IGO, NGO- or government-led social and development programmes. The consequences are that some interventions may not be compatible with consumption habits, local practices, or growing conditions; agricultural inputs (such as new cultivars) may be supplied in advance of suitability testing and without knowledge of any long-term unintended consequences on local species.

This project aimed to strengthen partnerships between UK researchers at the Universities of Edinburgh, Kent and Aberdeen, and Syrian academics affiliated with the Council for At-Risk Academics (Syria Programme) who are living in Syria and in exile in Turkey, Jordan and Lebanon. It facilitated opportunities to build trusted relationships between scientists, academics and decision-makers to promote integration of cultural and technical knowledge and expertise in international decision-making and strategy development efforts for longterm future of Syria. We employed foresighting approaches (e.g., scenario planning) to create a platform for dialogue between diverse groups of stakeholders, in which we explored a diverse set of plausible long-term futures for agriculture and food production in Syria. This allowed us to co-construct sustainable, locally informed strategies for research and education to meet future needs. This approach was informed and grounded by foundation research led by Syrian academics (from the arts and humanities and agriculture and food security networks within the Cara Syria Programme) to explore the history and impact of cultural and religious practice on agriculture and food production, preparation and consumption through different disciplinary lenses - including Syrian folklore and music. This was complemented by in-person and remote ethnographic research about the impact of the conflict on current food environments (in Syria, Turkey, Jordan, Iraqi Kurdistan and Lebanon). The Syrian Humming Project sought to commemorate the accompanying emotional and psychological aspects of food (in)security through an interactive online soundscape developed from a collection of hums and related ethnographic narratives from displaced Syrian communities so that these collective memories will not be forgotten in the future.

1.Importance

The SyrianFoodFutures project aimed to strengthen partnerships between researchers, practitioners and decision-makers in the UK, Syria and countries receiving academics in exile (primarily Turkey, Lebanon, Jordan) so that local cultural and technical expertise can be incorporated into future Syrian socio-economic development and reconstruction programmes. This will help to ensure a successful transition away from humanitarian provision of short-term food supplies and agriculture inputs towards long-term contingency planning for food security and adequate nutrition under conditions of protracted conflict

Protracted political conflict creates conditions for severe and widespread food insecurity. The conflict in Syria has not ended and there is currently a wealth of local knowledge, connection and expertise offered by Syrian academics in exile (as well as displaced Syrian agricultural communities) and in Syria; this is a major part of Syria's intellectual and cultural capital that has been largely ignored by the intelligence gathering and analysis activities informing humanitarian responses to the crisis. Improving local knowledge-sharing about the culture and history of agriculture, food access, production, preparation and food behaviours will improve the effectiveness of strategy development for future reconstruction of the agricultural sector and Syrian food systems particularly if there are lessons to be learned from responses to previous food system shocks (such as conflict and drought).

Wider Research Context

Sustainable Development Goal (SDG) attainment is severely compromised not only in fragile and conflict-affected countries (FCAS) but also in LMIC countries which host their refugee populations. In Syria, agriculture and food production, availability, distribution and consumption in country have been distorted as a result of the ongoing civil war, with attendant effects on food insecurity and malnutrition. Even before the COVID-19 pandemic, 6.5 million people are currently food insecure and a further 4 million people are at risk of becoming acutely food insecure¹. Despite being in a period of sustained crisis since 2011, agriculture is still considered an important part of Syria's economy (26% GDP)² and critical for self-sufficiency for more than 75% of households who grow their own food for consumption. To our knowledge, there have been few, if any attempts to capture stakeholders' visions for the future of agriculture in Syria, even though attitudes and beliefs will have changed considerably over the duration of the conflict and may be important drivers for contemporary coping strategies and decision-making when it comes to producing and consuming food. Uncertainties about governance, weakened institutions and research funding and capacity constrain traditional opportunities for longterm contingency planning and inhibit access to local expertise, which is essential for timely, evidencebased decision-making. Interventions understandably focus on survival and short-term food security needs (i.e., food supplies and agricultural inputs such as fertilisers, seeds, medicines) at the expense of longer-term strategic approaches which incorporate broader socio-economic or environmental considerations³. This may result in unforeseen tensions between short- and long-term food security demands which could undermine resilience in the long-term. This is exacerbated by diminished regional and international collaborative research ties between researchers, universities, producer organisations and the private sector⁴. Migration resulting in the internal and external displacement of people, means that much of the country's scientific and technological expertise may now reside

¹ Food Security Cluster (2017) Food security situation in Syria: Expanded version of the Food Security Sector Humanitarian Needs Overview 2018. Whole of Syria Food Security Sector.

² FAO (2017) Counting the cost: Agriculture in Syria after 6 years of crisis. Available at: http://www.fao.org/3/b-i7081e.pdf

³ Longley et al. 2006. Agricultural rehabilitation: Mapping the linkages between humanitarian relief, social protection & development. Humanitarian Policy Group Research Report 22, Overseas Development Institute, London

⁴ Giordano, T (2011) Agriculture & economic recovery in post-conflict countries: Lessons we never learnt. Development Bank of South Africa. Development Planning Division Working Paper Series No. 22

outside Syria and is largely ignored, or difficult for decision-makers to find. The extensive loss of incountry human and intellectual capital in Syria, as academics are displaced from high-risk areas as a matter of safety and security, has resulted in a disconnect between local cultural knowledge and expertise and decision-makers who are responding to the crisis and trying to positively influence future societal rebuilding efforts based on social trust, cultural values and pluralism. The low-level continuation of the Syrian conflict, and the absence of a clear pathway towards transitional justice and inclusive reconstruction, make documenting such local cultural knowledge even more relevant to more localised efforts at rebuilding agriculture and strengthening agricultural communities.

Need for Interdisciplinarity

Certain cultures of expertise (such as the arts and humanities) are furthermore deprioritised by decision-makers and funding bodies in favour of investments in projects which improve physical capital (infrastructure, technology and agricultural inputs) and natural resources to address immediate humanitarian food and health security needs. Relevant, context-specific and interdisciplinary sources of intelligence may be neglected or excluded from intergovernmental, NGO-or government-led social and development programmes. As a result, some interventions to address food security have not been compatible with consumption habits, local practices, or growing conditions in Syria; some agricultural inputs (such as new cultivars) have been supplied in advance of suitability testing and without knowledge of any long-term unintended consequences on local species.

Adding Value

The SyrianFoodFutures project, through the strengthening of partnerships between Edinburgh and the Council for At-Risk Academics (Syria), and collaboration with Universities in Turkey (Gaziantep) and Syria (Aleppo in the liberated area), local and international NGOs/IGOs, sought to utilise innovative, transdisciplinary foresighting approaches to explore the utility and role of different cultures of expertise in decision-making. The project combined knowledge and expertise from the arts and humanities (music, history, literature, anthropology), social science, food systems and agriculture (livestock and crop production) to answer questions about the future of food security. This is fundamental if we are to improve "understanding of linkages between cultural practices or resource use and socio-economic outcomes" and increase awareness of the cultural norms and power asymmetries which exist and influence short- and long-term decision-making processes in fragile and conflict affected states.

2. Equitable Partnerships

This project facilitated the creation of an interdisciplinary SyrianFoodFutures network (of Syrian experts within the Cara Syria programme from STEM (food security, livestock and crop production) and Arts and Humanities backgrounds, UK and Turkish academics, local and international NGOs, which was built on a principle of equitable partnerships and comprise. It builds on the outcomes of a Cara Syria Programme Arts and Humanities workshop in March 2019 and a Global Challenge Theme Development-funded roundtable meeting (June 19-20, 2019) which focused on developing interdisciplinary tools and approaches to addressing food security and resultant public health outcomes. Interdisciplinary research collaboration was not common practice in Syrian research institutes prior to the conflict, with most research occurring within disciplinary silos, so a primary aim of the SyrianFoodFutures network was to catalyse Cara Syria academics to lead, design and deliver foundation research which focused not only on the delivery and implementation of technical solutions, but also the exploration of the emotional and affective experience of Syrians as part of a

⁵ Wilson et al. (2018). Why culture matters for planetary health. The Lancet Planetary Health 2 PE-467-E468

more nuanced evaluation of the performance of food security interventions and programmes and to inform foresighting work to improve food security resilience. Our joint Syrian-Turkish-UK network provided project mentorship to Syrian academics and worked in partnership with the Cara Syria Programme to facilitate meetings, supervision of ongoing research activities and knowledge-sharing. Complementary ethnographic data gathering activities (which, due to the COVID-19 pandemic, were conducted remotely in Turkey, Jordan, northern Syria, Iraqi Kurdistan and Lebanon), offered opportunities to widen participation in the research through engagement with Syrian refugee communities. SyrianFoodFutures members built capacity by training UK and Syrian academics in new foresighting skills and sharing this knowledge through delivery of a scenario planning workshops. Those workshops were designed to combine lessons learned from traditional and historical approaches with pioneering technologies and expertise to inform best-practice guidelines and strategies for agriculture and food production in Syria and other Fragile and Conflict-Affected States. Through those workshops and the symposium (held in December 2021), the SyrianFoodFutures network sought to create sustainable communication pathways to decision-makers in nongovernmental and intergovernmental organisations to help: a) Identify future food security funding, research areas, education and training priorities for Syria and UK; b) Develop a local, culturallyappropriate and scientifically robust evidence-base to underpin decisions about food security interventions and social development programmes; c) Increase research capacity and expertise of displaced academics in Turkey, Jordan and Lebanon so that they might independently co-develop inter- and transdisciplinary research approaches and strategies for successful agricultural redevelopment in the future.

3. Research Activities

The SyrianFoodFutures project addressed the focal question: "What is the future of food security in Syria and what role do Syrian academics have in shaping this?" through 4 different themes summarised here and described in more detail below:

- 3.1. Collective Memory
- 3.2. Current food security environment:
- 3.3. Syrian Humming Project
- 3.4 A Future Vision of Agriculture for Syria

3.1 Collective Memory

Summary

Syrian academics led a series of foundation projects to document and explore the collective memories, vernacular, indigenous knowledge and histories of food access, production, preparation and consumption, through interviews and interactive workshops. This included:

- a) The impact of modernisation on women's roles and identities in food production, preparation and consumption;
- b) The history of food insecurity in Syria through the lens of Syrian literature, folklore and living memory; lessons learned from previous system "shocks" such as drought and war;
- c) The impact of religious practice on the emergence of different types of food production pre- and post- conflict (focus on honey, olives and wheat)

Background

Interdisciplinary knowledge (anthropology, literature, sociology, theology, Islamic studies, history, archaeology, gender studies etc) may be neglected or excluded from intergovernmental, NGO- or government-led social and development programmes. In this work, researchers sought to:

- Contribute local and culturally appropriate humanities perspectives to the evidence base underpinning decisions about food security/social development interventions
- Explore and highlight the cultural and social dimensions of foods (in)security;

• Capture oral tradition/history/wisdom through analysis of the testimonies of living subjects, literature, folk songs, poems, folk tales and proverbs

Approach

Purposive samples of Syrian participants were recruited through the researchers' personal networks, using snowball sampling techniques The sample accounted for demographic diversity in terms of age, marital status, occupational status, education level, region/city of origin and region/city of domicile. In order to protect the participants' confidential information, their real names are replaced by pseudonyms.

Travel restrictions and safety concerns surrounding the Covid-19 pandemic required researchers to adapt to remote data collection. Online focus groups were deemed unfeasible due to many participants' limited access to technology and good quality internet connection. Instead, one-to-one semi-structured interviews were conducted with all participants over the telephone or WhatsApp, depending on participants' preferences. Interviews typically lasted between forty-five minutes and an hour and followed a loose question schedule exploring participants' experiences of food production, preparation, and consumption prior to, during and after displacement; the role and place of food in their lives prior to, during and after displacement; the meanings and significance they attached to food(s); and their wider experiences of displacement. Interviews were conducted in the participants' native language of Arabic and were audio recorded. Recordings were transcribed as soon as possible following each interview and anonymized, with each participant ascribed a pseudonym. Data were stored on encrypted pen drives and transferred promptly onto the University of Edinburgh's secure server.

Key Messages

- Food culture plays a crucial role in community cohesion, psychological wellbeing and placemaking among displaced Syrian women (study 1).
- Historical accounts of food insecurity in Syria and the Levant from the late Bronze Age to 2011
 highlight recurring patterns of interaction between environmental and human factors. Older
 Syrians have experienced more than one food crisis in recent history (see 1980s crisis, the 1973
 war with Israel and the period of unity with Egypt between 1958-1961), although the current
 consensus is that the current crisis is the worst. As such, food insecurity is a prominent theme in
 Syrians' collective memory and is not limited to the consequences of the current crisis (study 3)
- Food aid provided by humanitarian agencies in Northern Syria is crucial to alleviating the impacts
 of the current crisis, but not enough aid is available and what does arrive is often unfairly
 distributed and can be spoilt or poor quality.
- Women's roles in food acquisition, production and consumption have changed significantly during and after displacement. This is sometimes empowering, but also destabilising. Traditional food knowledge is an important asset for Syrian women in all stages of displacement (study 2).
- Olives, honey and wheat are considered by Syrians (in this study) to be blessed foods due to scriptural references and are widely believed to have spiritual and medicinal, as well as nutritional, benefit. There is limited research on whether such beliefs are scientifically supported, and if spiritual/nutritional/medicinal benefits outweigh challenges associated with agricultural production for these reasons, under current conditions (study 3).

This work was complemented by an ethnographic exploration of the current food insecurity situation in Syria, coupled with a series of participatory artistic interventions. The latter aimed to stimulate debate and further insight about social, historical, ethical and cultural impacts of food system shocks and resultant acute and chronic food insecurity.

Study 1. Impact of modernisation on women's roles and identities in food production, preparation and consumption

- Despite comparative abundance of food in Turkey, Syrians who are living there are still facing
 food insecurity. This may stem from a combination of cultural and socio-economic factors,
 restrictive asylum policies (which force Syrians into informal labour) and the disruption of
 traditional foodways, which may exacerbate Syrian refugees' feelings of isolation and loss and
 negatively impact their mental health.
- Women may be disproportionately exposed to these risks due to cultural expectations around women's behaviour, and traditional domestic roles responsibilities. Household management, food preparation and childcare are all duties undertaken predominantly by women.
- Syrian women suffer from lack of access to rights and social security in asylum⁶ and as such, many refugee women in Turkey experience traumatic shifts in status and lifestyle when they are compelled to take on new and unfamiliar responsibilities required of them such as becoming the primary earner/head of household⁷.
- In this study, semi-structured interviews were conducted with a diverse sample of 25 Syrian women refugees, which were recruited purposively through researchers' personal networks. Participants were asked about their experiences of food production, preparation and consumption before, during and after their displacement, and the impact of war and displacement on their experience of food security. The sample accounted for demographic diversity in terms of age, marital status, occupational status, education level, region/city of origin and region/city of domicile.
- Domestic dynamics, food roles, and food culture appear to be changing as a result of
 displacement. Women's traditional role as the head of household was changing with increasing
 acceptance of the need to work to secure household income. Male household members
 participated in food preparation, with some experiencing depression and loss of status as a
 result. Envisaging their futures, younger women expressed an expectation that both incomegenerating and domestic responsibilities would be shared with their husband.
- Previously, family roles and responsibilities were considered to be delineated according to a male domain of income generation and economics, and a female domain of domestic management (although this varied according to rural/urban locale and economic/professional status). Men typically held economic responsibility both within nuclear families and within extended families, particularly in rural communities where land-owning patriarchs were expected to distribute agricultural yields among family members 'even if young people are married and far away from the family. Women passed on cooking skills to their children; Syrian girls supported their mothers at home.

⁶ Özerim, M. G. and Çetin, E. 2019. "The Interplay between Migration and Women. The case of Syrians in Turkey". In *Women's Economic Empowerment in Turkey*, edited by O. B. Celik and M. Ince Yenilmez, 64 – 78. New York: Routledge

⁷ Kyung-Sup, C. 1999. Compressed modernity and its discontents: South Korean society in transition. *Economy and society*, 28 (1): 30-55.

Study 1. Contd. Impact of modernisation on women's roles and identities in food production, preparation and consumption

- In Turkey, reduced household budgets have constrained Syrian refugee women's ability to express themselves through their cooking and hospitality and are a daily reminder of lost status and identity. Lack of income as a result of loss of men's livelihoods contributed to women's lack of food security; women and children have to share the responsibility of generating income for the food budget; women can no longer stockpile supplies. Food has to be acquired on a daily basis, limiting access to out of season produce. Lack of time, agricultural land and limited employment opportunities were also important contributing factors. Job opportunities for women, outweigh those available for men. As a result, many men now cook for the family.
- Family bonding is still anchored in food preparation and eating together. Female heads of family retain the responsibility for bringing dishes or raw ingredients to prepare food for large extended family gatherings. Women living in asylum missed the large family meals that occurred on Fridays, holidays and weddings during Ramadan. Those families in Turkish cities with large Syrian populations (such as in Gaziantep and Istanbul) were able to sustain these gatherings regularly, while others spoke of being separated by "geography and death".
- Older participants, and those from rural backgrounds who had settled in Turkish cities, struggle
 to access nutritious and culturally acceptable food due to difficulties with shopping. This may
 be due to language barriers, or anxieties about visiting traditionally male spaces such as
 markets. Abrupt transitions from traditional lifestyles and gender roles to dynamic urban life in
 a new country can be destabilising and traumatic, and many participants expressed anxieties
 about a loss of control over their families' mealtimes and diet. This loss of control was also felt
 as a loss of status and identity.
- Younger women were at risk of food insecurity for different reasons. Despite acculturating to
 the culture of the host country more readily, their diet comprised higher proportions of
 processed food and takeaways. This was mainly due to time scarcity as a result of having to
 work to support their families or studying. Women supported each other across generations
 to mitigate for these risks, supporting food security for all and strengthening community bonds.
- Traditional food knowledge constitutes a vital resource for Syrian refugee women at all stages of their displacement journeys. It enables them to feed their families in times of food scarcity, or in the absence of electricity or domestic technologies, and is also vital to their sense of resilience. Food culture supports their psychological wellbeing and positive settlement in their host country of Turkey, and collective preparation and consumption of traditional food supports social cohesion and strengthens intergenerational bonds and support networks. Traditional recipes and foodways enable Syrian refugee women to evoke place and identity and provided a source of comfort and sanctuary to those experiencing loss, trauma and uncertainty. These insights highlight the importance of acknowledging the sociocultural significance of food in assessments of food security: traditional food knowledge engendered a sense of cultural food security (Power, 2008) that facilitated displaced Syrians' access to and use of food 'in socially acceptable ways' (WHO, USDA, 2000).
- Humanitarian organisations often fail to account for culture in their responses⁸. Our findings however highlight the importance of attending to the cultural and biosocial dimensions of food security⁹, and the need to consult with women refugees in order to better understand the complex intersections of displacement, gender and food security both in asylum and transit.

⁸ Chatelard, G. 2017. *Intangible Cultural Heritage of Displaced Syrians*. Paris: UNESCO. Available at https://ich.unesco.org/doc/src/38275-EN.pdf Accessed 17 April 2020

⁹ Moffat, T., Mohammed, C. and Newbold, K.B. 2017. Cultural dimensions of food insecurity among immigrants and refugees. *Human Organization*, 76 (1): 15-27.

Study 2. History of agriculture in Syria (through the lens of Syrian folklore) and lessons learned from previous system "shocks" such as drought and war

- Throughout Syrian history, food crises have been brought about by an interaction of both natural and human causes.
- Before the 2011 crisis, the most distinctive feature of food insecurity was a shortage of food, however since 2011 food has often been available but unaffordable for most people. Historically the state has taken a role in trying to mitigate how food insecurity affects everyday citizens, however since 2011 the role of the state has declined significantly, especially in Northern Syria. Reliance on international and local relief organisations is critical, but many people worry about the integrity of their distribution processes.
- Whilst state and international responses to food crises have varied throughout history, the response of people has been similar throughout, storing essential materials, searching for food alternatives, reducing consumption, helping their communities and supplicating to God.
- As well as the economic and health impacts of food crises, looking at the impacts on arts, literature and folklore is a potent reminder of the long lasting emotional and cultural effects of food insecurity.
- A comprehensive literature review and 30 semi-structured interviews (with people living in Northwest Syria) were conducted. Participants ranged in age (all were greater than 25 years old) and ethnicity (Arab, Kurdish and Turkish) and education levels (from illiterate to PhD holders). Participants also had a diverse set of jobs, including; teachers, pensioners, farmers, barbers, livestock keepers, labourers and traders. Researchers also explored cultural aspects of food insecurity, focusing on books, poems, diaries, folk stories, proverbs and television shows throughout Syrian history.
 - Stories such as Memories of Al-Huffaz School (Walid Ikhlassi), When Will the Rain Return (Adib Al-Nahawi), The Tale (Haseeb Kayali) and To Al-Dahdah (Haseeb Kayali) tell of bread made from barley and potatoes, electricity shortages, the devastation of lack of rain, farmers having to "steal" water from rivers because of government policies stopping them irrigating their crops, and merchants taking advantage of food insecurity to sell inferior produce and force customers into debt.
 - o Invocation for rain rituals is prevalent in Syrian folklore. When drought occurs, the "Um Al-Ghaith" (piece of wood carved to resemble a woman) is prepared with a veil and wedding jewellery. Women and children go door to door collecting food gifts and alms, which are cooked to provide for the children and the hungry. People chant, sing and celebrate until the rain falls, or repeat the event a few days later.
 - Many Syrian proverbs relate to agriculture and food, such as: "a hungry person may eat parts of brooms" and "nudity and hunger cause all diseases"
 - Several prominent television series such as Al-Frari (The Fugitive), Ikhwat Al-Turab (Soil Brotherhood), Al-Thuraya, Al-Hasad Al-Mur (The Bitter Harvest), and Hijratu Alqulub Ila Alqulub (Hearts to Hearts Migration), also depict famine and its consequences throughout history. Ranging from the Ottoman era to the beginning of the French Mandate for Syria to World War I, these series depict families forced to sell their possessions (and even their children) for food, farmers losing crops and income due to drought and rises in banditry, looting and violence as people become more desperately hungry.

Study 2. Contd. History of agriculture in Syria: Pre-history (before 20th century)

- Food crises occurred in Syria as early as 1250, in the Mamluk era (1250-1516) and later in the Ottoman era (1516-1918). The causes of food crises were complex and interlinked, with both human-made (war, monopoly, siege) and natural (locusts, drought, disease) drivers of change.
- Drought and famine and locust plagues were not infrequent within the Mamluk era. Locust swarms destroyed both human food sources and grazing land, reducing the ability to farm livestock as well as impacting arable agriculture.
- Diseases such as the plague, measles and tuberculosis led to concurrent labour shortages that further weakened economic activities.
- Many peasants chose to grow commercial crops (cotton and tobacco) rather than food, whereas wealthier members of society stored large amounts of food to adapt to food shortages.
- Famines not only increased the prevalence disease and death from starvation, but also resulted in significant social impacts such as: disruption of social classes due to the death of landowners, mass displacement of peasants, queues for foodstuffs and rising levels of theft and prostitution.
- These crises were viewed as religious phenomena or divine punishment, and were accompanied by calls for fasting, prayers and worship in the mosques. The Mamluk state attempted to combat these crises by controlling the weight of silver and gold coins, breaking monopolies that were hoarding food, price controlling certain foodstuffs (e.g., bread), and importing foodstuffs from Egypt to the Levant.
- During the early Ottoman era, famine remained a constant threat. Severe taxation and changes in legislation, which saw smaller landowners stripped of their land, accompanied by extreme weather (e.g., cold weather in 1756) also affected food security.

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Study 2. Contd. History of agriculture in Syria : Pre-history (20th century- post 2011 conflict)

- The famine associated with World War I "Safar Barlik" 1914-1918 was the worst famine in Syria's modern history. 1916 was known as the "Year of Hunger" and claiming the lives of more than 150,000 people. This occurred because:
 - I. A naval blockade imposed by the allies stopped imports of food into Syria.
 - II. A rise in food prices, as a result of the food demand from German officers who were sending Syrian food to Germany.
 - III. Compulsory recruitment, confiscation of land/crops/means of transport, and increasing taxation to fund war efforts.
 - IV. Severe drought and locust swarms which invaded the country in 1915.
- People lived on wild plants, sold everything they owned including their homes for a sack of flour. People
 were compelled to eat locusts, barley extracted from animal dung, unripe chickpeas and grits and even
 dead bodies. Women turned to prostitution, working as maids or marrying nomads in an attempt to
 secure their livelihood. Banditry, theft and money lent under exorbitant interest rates were rife.
- The government attempted to mitigate the disease effects of the famine by forcing people to hand over any food that was surplus to their needs and distributed poor quality bread.
- The Ottoman empire founded the Lebanese Catering Company to try and feed the people, but it failed due to corruption. Clerics opened restaurants and alms-houses to feed the poor. Syrian and Lebanese communities abroad set up charities and institutions that raised over 259 million dollars to be sent to the Levant over the course of the famine, although this money was never properly distributed.
- In the 1980s, the geopolitics between Britain and Israel resulted in economic sanctions on Syria. On the 16th April 1986 an attempt to bomb an Israeli civilian plane in London Heathrow Airport was blamed on Syria which led to the Prime Minister, Margaret Thatcher, cutting diplomatic ties with Syria; the United Stated and Canada summoning their ambassadors from Syria; and the European Group imposing economic sanctions. Multiple participants discussed their experience regarding shortages of flour, oil, sugar, tea, infant formula, medicines, building materials and fuel as a result of these sanctions.
- The absence of necessary and basic products resulted in an increase in smuggled goods from neighbouring countries.
- The agricultural sector was more protected from the impacts of these sanctions than others; many people who did not work in agriculture had to grow their own vegetables in home gardens and keep livestock for self-sufficiency.
- Since 2011, Syria has faced its most severe food crisis.
- High rates of unemployment, limited income and high prices (of food and fuel), as well as lack of safety (due to violence robbery and banditry) and reduced availability of food, mean that food is both unaffordable and unobtainable.
- Decreasing rainfall and destruction of irrigation infrastructure has negatively affected agricultural production capabilities, with the average grain production decreasing approximately 8.6% annually between 2011 and 2015.
- Some farmers have switched from producing nutritionally valuable crops to lower input, less nutritionally valuable crops. Many people were compelled to use all of their savings to survive over the protracted time period of the conflict. Others who were forced to sell their properties early on in the crisis, now have nothing left to sell to try and raise capital.
- The Covid-19 pandemic has led to businesses closing, both in Syria and neighbouring countries, further worsening the situation. Whilst food supply has decreased, basic foods are relatively available in markets but the high prices placed on these goods makes them unaffordable to a large proportion of North Syrian residents.
- The deteriorating food security and economic situation has meant that most North Syrian residents and IDPs can only afford essential food items, and in smaller quantities than previously. Many food items are being substituted for lower quality alternatives (e.g., switching from using olive oil to sunflower oil) and red meat has become unaffordable and unavailable to most families. An unreliable electricity supply means that it is not possible to use fridges and freezers as before, and storage space is expensive. Many Syrians have resorted to sun drying and pickling food as an alternative.

Study 3. Impact of religious practice on the emergence of different types of food production pre- and post- conflict

- Olives, honey and wheat are of religious importance as they are mentioned in the Holy Quran and are considered by many to be "blessed" foods. Other foods such as figs, grapes, dates, black seed, cumin, pumpkin, lemon balm, pomegranate, and ginger, were also noted.
- Olives, honey and wheat were also thought to have medicinal properties and are being used to treat conditions ranging from abdominal cramps to burns to infections and more.
- Olive oil was claimed to treat constipation, cramps, colic, diseases of the arteries, heart, liver, skin, hair loss, disc, and for physical therapy and psychological comfort.
- Honey was used by participants for burns, wounds, impotence, infertility, weak immunity, arterial
 diseases, strokes, the respiratory system, stomach, prostate, cancer prevention, and strengthening
 the body after varicose veins operations.
- Wheat was claimed by participants to "remove toxins and pus from the body", in addition to being an important source of nutrition
- High prices and lack of availability, mean that medical benefits were one of the main justifications
 for purchase and for their value. In areas where there are blockades, wheat was the most important
 priority purchase for bread-making (and survival).
- Participants felt that plants and foods should be better documented and classified and included in Sharia courses- and that there should be greater emphasis on interpretation of religious texts. There is also a need for community education that religious symbolism, which makes some foods especially important, may be useful in protecting the body and increasing its immunity, and it is never a substitute for medicine. "Warn people against some clerics who use the effects contained in some foods as a cover for practicing sorcery, astrology and the like, seeking money in the name of religion."
- It must be emphasized that the religious "symbolism" of some plants does not necessarily mean the priority of cultivating them. Rather, it must also be taken into account the suitability of the soil for cultivation, as well as the people's need for them, and their commercial value.
- Oral heritage (songs and folk tales) revealed the rooted importance of wheat, honey and olives in the Syrian heritage, which relates to the heavenly religions (Judaism, Christianity and Islam) and is linked to myths and folk tales struck in the depth of ancient history. This may reveal more about the "characteristics of the ancient Syrian man, his religious beliefs, his artistic and medical practices, and his behaviour in relation to agriculture, food security, and medical security".
- Work needed to be done in this context to quantify which potential benefits of these foods were scientifically supported vs not, and to improve education around these crops. Whilst it is essential to consider the religious significance of these food products, it is important that their religious and sometimes medicinal significance not outweigh the agricultural disadvantages/advantages of growing them.

3.2 Current food security environment Summary

In-person and remote ethnographic field work was conducted to identify knowledge gaps and gather information from Syrian academic and their extended networks (both inside and outside of Syria) about their local agriculture and food environments pre- and post-conflict, including consideration of the various emotional, cultural, financial and logistical drivers for food behaviours. This work included an exploration of the current relationship between Syrian academics, NGOs and IGOs involved in strategic planning for agriculture and food security in Syria and mapping with key informants to understand how social constructions reinforce or weaken support for implementation of selected strategies.

Background

Through ethnographic fieldwork with Syrian agricultural communities in the Middle East, we aim to grasp the multifaceted present of refugee labour, and to counter simplistic representations of refugees as passive victims and aid beneficiaries. Syrian refugees in Middle Eastern host countries are not merely stuck in protracted displacement: they show agency in choosing certain types of jobs and opting for seasonal movements between different agricultural production sites. It is important to understand the socioeconomic, legal and cultural factors that shape this agency. Extended research with refugees on the ground, in their homes and at agricultural work sites, can tell us about the complex lived experiences of Syrian labour, gendered and generational dynamics within refugee households, and the often-overlooked cultural aspects of precarious refugee livelihoods. Seasonal agricultural labour is nothing new to many Syrians who migrated widely for work before 2011. In addition, many refugees working in agriculture today come from rural backgrounds and have preserved a rich intangible cultural heritage and traditional farming practices.

The first goal of our fieldwork was thus to connect our findings on present-day refugee labour to their previous working experiences and mobilities in agriculture. Second, we hoped to understand how Syrians' current forms of labour, and NGO vocational trainings targeted at refugees, shape their employment opportunities in Middle Eastern host countries. Third, given huge intraregional variations in agricultural production, we sought to map different settlement and movement patterns, and working conditions, across the entire region.

Approach

In December 2019, AZ and SA conducted a ten-day pilot study with Syrian agricultural labourers and entrepreneurs in the Adana region, western Turkey, and around Gaziantep, southern Turkey. We interviewed approximately ten Syrian families at their homes, in orchards, on fields, and in plant nurseries. We also included Syrian agricultural entrepreneurs, including the owner of a plant nursery close to Mersin, and two Syrian beekeepers in southern Turkey.

Due to COVID-19 related movement restrictions and social distancing measures since March 2020, we had to adapt our ethnographic approach. Fortunately, we were able to capitalise on our Syrian partners' existing relationships of trust with rural communities in the Middle East, and on the social networks that we had established with refugees in Turkey in December 2019, to launch two follow-up projects. For the *From the FIELD* project (April - June 2020), we collected remote household surveys with 100 Syrian families working in agriculture in Northwest Syria, Lebanon, Turkey, Jordan, and the Kurdistan Region of Iraq, exploring the effect of pandemic restrictions on refugee livelihoods and food security. For the *Refugee Labour under Lockdown* project (October 2020 – May 2021), we conducted remote ethnographic interviews with 80 Syrian agricultural workers, 20 intermediaries and 20 employers in Northwest Syria, Lebanon, Turkey, and Jordan, studying the impact of COVID-19 related restrictions on refugees' working conditions in agriculture.

In 2021, we also used our existing networks with Syrian communities to zoom in remotely on two related phenomena: gendered forms of agricultural knowledge, and Syrians' traditional harvesting songs. First, we conducted remote ethnographic interviews with a group of Syrian refugee women originally from the Baba Amar district in Homs, well known for its Bedouin population working with livestock before the onset of the Syrian conflict. Second, we remotely collected traditional Syrian harvesting songs with ten Syrian families in Turkey and Northwest Syria.

Given the movement restrictions during the pandemic and some participants' limited literacy, all remote surveys and interviews were conducted as semi-structured interviews via WhatsApp. All interactions were realised by Syrian academics affiliated with the Council of At-Risk Academics who brought to the research native Arabic-language skills, and an emic understanding of cultural and gendered sensibilities, and the lived struggles of displacement. To avoid vicarious trauma for the Syrian interviewers, we regularly met as a team to debrief, and discuss emotionally challenging findings. In addition, refugees included in the *From the FIELD* and the *Refugee Labour under Lockdown* project were asked to document their everyday lives, food consumption and working conditions through WhatsApp diaries. Together with the Council for At-Risk Academics, we developed a safe payment protocol that allowed us to reimburse all refugee participants for the costs of data used during pone interactions.

Key Messages

- It is important to acknowledge that working and living conditions for displaced Syrians greatly differ across countries and regions in the Middle East, types and seasons of agricultural production.
- Across the Middle East, our interlocutors live in big cities like Irbid (Jordan), Gaziantep (Turkey) and Erbil (KRI), in villages and small towns along Syria's borders, and in internally displaced persons (IDPs) camps in Northern Syria, and formal and informal refugee camps in Lebanon and the Kurdistan Region of Iraq. What all have in common is that they originally come from rural areas, and most of them still work in agriculture or food production, even when they now live in urban centres. In many cases, this income complements additional sources of revenue, including other work in the informal economy and humanitarian assistance.
- While many displaced people find agricultural jobs through intermediaries, others liaise directly with employers. Refugees' legal status and access to humanitarian assistance also differs across host countries: in the Refugee Labour under Lockdown project, for example, 100% of interviewees in Lebanon and Jordan, but only 32% of interviewees in Turkey, were registered with the UNHCR. This is unsurprising as the Directorate General of Migration Management of the Turkish Government, rather than UNHCR, is responsible for registering individuals under temporary protection in Turkey. Similarly, 100% of Syrian respondents in Turkey were registered with the local authorities.
- Overall, 42% of Syrian workers outside of Syria reported having a valid permit to work in agriculture, with 65% in Jordan, 50% in Lebanon, and 11% in Turkey; however, according to agricultural intermediaries, refugees' possession of work permits was much lower.
- Taken together with limited sample sizes and convenience sampling through our existing
 networks, these important intraregional differences between Syrian communities mean that our
 ethnographic findings are hardly representative of all displaced Syrians working in Middle East
 agriculture, let alone all Syrian refugees in the Middle East. However, they do paint a picture of
 wider trends in precarious refugee employment in increasingly globalised agriculture before and
 during the COVID-19 pandemic (see Box 1 and 2).

Box 1. Why do farmworkers go hungry during a pandemic?

- Although many Syrian refugees work in agriculture, they are at an increased risk of food insecurity during the COVID-19 pandemic.
- For Syrian refugees working in agriculture, the pandemic has been experienced as an economic crisis, not as a health crisis. In spring 2020, our Syrian participants in the *From the FIELD* project had all heard about the new virus, but most felt healthy as normal.
 - o No one had been tested for the virus.
 - Instead, a more imminent threat was the loss of jobs and price hikes due to lockdowns and the economic knock-on effects of COVID-19 mitigation measures. As a result, 70% of our respondents reported that their monthly income had decreased in spring 2020; almost half did not have access to cash at the time of the interview.
 - Refugees' dependency on food markets exacerbated their precarious livelihoods: in spring 2020, 90% of respondents bought food from main shops, while only a tiny fraction grew their own food, or received food from employers. As a consequence, initial price hikes in local markets exacerbated the pressures on refugee households which now found themselves with a reduced or no income at all; 89% of respondents reported major increases in prices of basic food commodities, e.g., wheat, flour, rice, oil and sugar, compared to the previous year.
 - Over the last seven days before the interview, 94% of households had sometimes or always relied on less expensive food. 27% had borrowed food from friends or relative, while 65% had purchased food on credit. A staggering 19% had spent between one and three days without eating.
- In March 2020, the onset of the COVID-19 pandemic coincided with the beginning of the agricultural season in many Middle Eastern countries, and many business owners felt pressured to continue production, usually with no health precautions for workers during transport and at work sites, and in contravention of existing movement restrictions.
- Pandemic-related lockdowns hit refugee workers during Ramadan 2020, at a time of reduced working opportunities, and greater, festive food consumption. Many interlocutors complained to us that they were unable to cook traditional food, share meals with the neighbours, and buy gifts for their children.
- We thus have to take into consideration how refugees' employment precarity and new economic shocks interacted with seasonal religious events and cultural practices.
- In a follow-up project, the Refugee Labour under Lockdown study, we learned that pandemicrelated job losses in spring 2020 were only temporary. However, the accumulated economic pressures of the pandemic have worsened refugees' standing in already volatile labour markets. Importantly, the pandemic did not only cause disruptions, but also entrenched problematic continuities.
- Despite widespread movement restrictions, agricultural labour continued for most displaced Syrians across the region; only 13% lost their jobs permanently in the first year of the pandemic. At the same time, greater job insecurity, reduced working hours, and the absence of protective measures worsened precarious working conditions in agriculture: Syrian households, who had entered the pandemic with no financial safety net, had become even more vulnerable, and some had entered debt relationships with intermediaries.

Box 2. Refugees' "unfree" labour in global supply chain capitalism

- Precarious labour in agriculture remains the only option for many displaced Syrians during the pandemic.
- This type of work is not a "local" phenomenon, nor a humanitarian anomaly. It has to be understood in the context of displaced Syrians' longstanding structural marginalisation in Middle Eastern labour markets, and within the context of global migrant labour more broadly.
- Chronic job insecurity is typical of refugee labour in the Middle East. Due to the seasonal nature
 of agriculture, a surplus of workers and refugees' insecure legal status, many displaced people
 worked on an on-off basis in the sector long before the pandemic. Not the absence, but the
 unpredictability of work at the bottom of segmented labour markets have made refugee lives
 precarious and stopped them from rebuilding financial safety nets in exile.
- At the same time, the globalisation of Middle Eastern agriculture has increased the pressure on producers to cut costs by employing exceptionally vulnerable workers without rights: refugees, (irregular) migrants, women, and children. Our pre-pandemic findings from in-person fieldwork in Turkey in 2019 suggest that short-term NGO trainings and employment programmes, aimed at increasing Syrians' self-reliance, fail to address these underlying structural conditions of precarious refugee labour.
- The definition of "forced labour" that is used by the International Labour Organization accounts for *individual* acts of coercion; however, it fails to capture many Syrians' complex experiences of work. In the *Refugee Labour under Lockdown* project, all workers confirmed that their employers did not confiscate their identity documents, and 50% reported that there would be no negative consequences if they left their jobs early; 36% of workers said that they would abandon jobs if they did not like the conditions or the pay.
- At the same time, 22% of workers felt that leaving was not an option because these were the only available jobs. By autumn 2020, 75% had become unemployed temporarily, and 83% found it more difficult to find jobs in agriculture, compared to before the pandemic. If we accept a broader definition of "unfree labour" that accounts for economic necessity and the effects of structural forces, but also workers' agency in opting for exploitative work, then we can reappraise the factors that push displaced Syrians to accept work in agriculture: longstanding sociolegal marginalisation in host countries, together with the added economic pressures of the COVID-19 pandemic.
- Unlike historical forms of forced labour, informal employment in agriculture is often short-term, paid, and accepted by displaced Syrian workers without coercion by employers. However, there is also an intimate dimension of refugee labour, one that only in-depth ethnographic research can make visible: many refugees are recruited into global supply chains along kinship lines, and by agricultural intermediaries from their own kinship networks. Patriarchal expectations between "intermediary-fathers" and "refugee-children", family obligations, and complicated financial arrangements all shape the complex relationships between intermediaries and workers.
- Through focusing on labour, we expand our understanding of displacement, not simply as the source of humanitarian crises, but as a process that generates precarious workforces. This allows us to advance debates on the blurring of distinctions between refugees and migrants, placing Syrian labour in the context of migrant farmworkers' struggles globally.
- However, not all displaced Syrians working in agriculture are day labourers. In Turkey in 2019, we also interviewed Syrian agricultural entrepreneurs who had established plant nurseries and beekeeping businesses of different sizes. While some of them were already exporting their products regionally, all struggled with accessing domestic markets, catering to the tastes of the host society, and upscaling logistics. Some of these Syrian businessmen also employed Syrian refugees, often under exploitative conditions.

Next Steps

Drawing on our findings so far, we suggest three types of future research.

- 1. To understand the pressures that global companies exert on those at the beginning of global supply chains, it will be important to extend our fieldwork to "upstream" actors in global supply chains. Beyond agricultural intermediaries and employers, future research should include national and international retailers. Retracing agricultural supply chains will help deexceptionalise the study of precarious refugee labour, which is subject to similar market dynamics as irregular migrant workers around the globe.
- 2. Our in-person and remote ethnographic research indicates that displaced Syrians hold on to their intangible cultural heritage, notably through harvesting songs and traditional ways of food production. However, in exile, there is also a growing rift between older and younger generations of Syrian farmers; displacement has torn apart not only tightknit agricultural communities, but also traditional forms of oral knowledge. In the AHRC-funded *FIELD SONGS* project (starting in November 2021), we will partner with the Syrian NGO Douzan Art & Culture to organise a series of joint workshops with Syrian farmworkers and Syrian musicians in Gaziantep, southern Turkey, to produce a digital archive of Syrians' harvesting songs and initiative conversations on cultural heritage between older and younger refugees.
- 3. Syrian women and children may experience precarious agricultural labour differently, and it is vital to understand better their paid and unpaid contributions to refugee households, and the specific risks that they face at agricultural work sites. In the *Refugee Labour under Lockdown* project, we did not find that female and child labour had increased in our sample during the first year of the COVID-19 pandemic. However, this indicates that in many poor households, women and children who were fit to work had already been toiling, at least, occasionally, in agriculture before 2020. We need more research on the generational dynamics of refugee labour to explore how hostile asylum policies, and the absence of educational opportunities and alternative livelihoods, produce the next generation of refugee workers.

3.3 Food Security and Mental Health

Summary

Burke et al. (2021)¹⁰ described the results of a survey on the impact of food insecurity on mental health during the COVID-19 pandemic.

Background

According to Burke et al. (2021), the link between food insecurity and mental health is well-established. Risk factors for mental health, including traumatic or violent events, forced multiple displacements, unresolved grief, disruption to meaningful activities, breakdown of social roles, loss of social support and persistent daily stressors, such as poverty, overcrowded shelters and inadequate access to food persist in NW Syria. Syrians are exhibiting elevated levels of mental ill-health, in terms of depression, low subjective wellbeing and anxiety.

Approach

Spin-off funding from the Global Challenges Research Fund, for the *From the Field* project enabled our team to explore the impact of the Covid-19 virus on the lives and livelihoods of Syrians living in Lebanon, Iraqi Kurdistan, Jordan, Syria and Turkey. 100 questionnaire surveys were deployed through local networks of researchers and practitioners to obtain data utilising mental health scales and food security measure. Participants were selected on the basis of having originally come from a rural area, and most still work in agriculture or food production, even if they currently lived in urban areas.

Key Messages

- Syrians displayed a number of coping strategies to maintain their food intake. This included borrowing, relying on others, buying on credit, choosing less expensive foods, limiting portions and reducing meals (or going without food altogether).
- Of those Syrians surveyed, those with greater food security, were likely to be experiencing
 higher levels of mental well-being. positive psychological wellbeing of individuals facing
 humanitarian crisis is required for robust food security.
- Public health restrictions increased domestic demands and the economic pressures on households
- Women were experiencing disproportionate burdens with respect to domestic chores and food production
- Funding appeals will need to increase to meet growing needs. For instance, there may be benefits of prolonged multipurpose cash assistance in reducing food insecurity and improving mental health. This points towards the need to explore the possibilities of 'Cash Plus' programmes that can provide parallel, linked mental health and psychosocial services.

3.4 The Syrian Humming Project

Summary

Hums are never just about songs. They are always more about stories, memories, feelings of you and me. Syrian hums were collected through a crowd-sourcing method in collaboration with research

¹⁰ Burke et al. (2021) Food security and mental health under the Covid-19 syndemic. Humanitarian Practice Network. Available at https://odihpn.org/publication/food-security-and-mental-health-under-the-covid-19-syndemic/

colleagues, partners, and volunteers who were in Turkey, Jordan, Lebanon, and Scotland. When we asked displaced Syrian families to share with us their hums of songs and tunes about food and meals, their hums were more than about food. They were for people with whom they shared meals. The crowd-sourcing method from the Syrian Humming Project has resulted in over 120 hums and songs through which the memories and experiences of Syrian people on food, and in a broader sense, on their country, people, their hopes and dreams. Our spin-off project, <u>From the Field</u> also helped us collect the intimate soundscapes of the places and spaces of individuals and their families through their video diaries on food security under the pandemic and the consequent restrictions

Background

The efficiency and performance of any decision-support system is not entirely based on technical outputs. The "felt" (emotional and psychological) experience is also critical to improving implementation and uptake of any interventions as such interventions related to food are emotional tasks. The Syrian Humming Project focused on the experiences of Syrian academics and their families in the context of three community sites in Turkey, Jordan and Lebanon. The aim for this work was to explore, share, and commemorate personal and collective memories with a particular focus on food culture in Syria through the collection of hums and related stories from the displaced Syrian communities.

Approach

Researchers collected Syrian people's humming and other related sound materials as a means to explore their experiences with food. We conducted this exploration of such memories and experiences not merely as a unilateral approach where we merely analyse the collected sound materials for the sake of our project; instead, we wanted this exploration to be a mutual one, that is, the aim for Syrian Humming Project was to explore, share and commemorate their personal and collective memories on food culture together between the researchers and those who offered hums

Our initial plan for achieving this aim was to collect two types of sound recordings: hums from Syrian refugee communities in three regions — Turkey, Lebanon, and Jordan — and the soundscape recordings of those sites during our visits. This plan came to a complete halt due to the pandemic. Our next contingency plan developed in early March 2020 was to collect hums from Syrian families who had now settled in Scotland. Thus, a series of meetings were then planned, and SJK met with officers at Scottish Refugee Council in Dundee and Aberdeenshire to introduce the project and establish links with Syrian families in these regions. SJK also had initial meetings with groups of Syrian families and youth groups to introduce the project, but the actual meetings for gathering hums from these connections were subsequently and abruptly halted when the UK went into the full lockdown in late March. As a result, our next plan was to collect those hums and the soundscapes from the fields through a crowd-sourcing method. This method was implemented, on the one hand, through research colleagues, partners and volunteers who were in those regions, and on the other hand, through another project that had interrelated research aims: From the Field.

Key Messages

The crowd-sourcing method resulted in over 120 hums and songs through which the memories and experiences of Syrian people on food, and in a broader sense, on their country, people, their hopes and dreams. On the other hand, From the Field helped us collect the intimate soundscapes of the places and spaces of individuals and their families through their video diaries on food security under the pandemic and the consequent restrictions.

Next Steps

With these rich source materials of the hums and soundscapes, SJK has created an online exhibition of Syrian Humming Project (http://syrianhummingproject.com), which consists of ten humming compositions based on the collected hums and soundscapes, quotes from the stories and images of food being prepared and shared by those who participated in From the Field. The current online exhibition, which launched in December 2020, is its first version of Syrian Humming Project. In the second version of the project, and In partnership with arthereistalbul (https://www.arthereistanbul.com/; artistic director: Omar Berakdar), we have asked Syrian visual and sound artists who are dispersed in Turkey and other parts of the Europe to respond to this online exhibition with their own art work. By August 1, 2021, seven responses were selected (four sound compositions, two audio-visual compositions, and one collection of hums from an art centre in Turkey), which have been used to develop Syrian Humming Project V.2, launched in October 2021.

3.5The Future for Food Security in Syria.

Summary

The aim of this component of the project was to develop relationships, strengthen partnerships and facilitate a platform for dialogue between academics, decision-makers, practitioners and lay people in order to integrate local knowledge, cultural and scientific expertise to improve decision-making and strategy development for long-term and highly uncertain futures.

Participatory scenario planning methodologies were employed to combine knowledge and create a variety of 'what if' scenarios to explore uncertainties associated with these long-term drivers of change. This transdisciplinary approach brings together diverse groups of participants with different interests/beliefs to engage in qualitative structured long-term strategic thinking about the future. It includes the systematic examination of the history and current trends and developments that are played out in plausible ways that allows participants to challenge their own commonly held beliefs and identify potential blind-spots in thinking, which may be otherwise ignored by decision-makers. Boden and colleagues were one of the first to apply this methodology to explore the long-term future resilience and sustainability of livestock systems and agriculture in the UK¹¹. In this project, we will apply this approach to explore the future of Syrian food security and build strategic partnerships between stakeholders in Syria and Scotland to identify influential industry drivers, explore future scenarios and develop robust contingency plans.

Experts in scenario planning and agriculture from UK trained Syrian and Turkish partners in participatory futures techniques such as horizon scanning and scenario planning to map drivers of change, explore long-term futures and co-create strategies with Syrian stakeholders to consider a broad range of options to improve both the short and long-term resilience of food security in Syria. The aim of this approach is not to 'predict the future' but rather to create opportunities for stakeholder-led dialogue about potential constraints and benefits, and to evaluate whether proposed policy and investment decisions are likely to be robust in the context of evolving uncertainties. This allowed stakeholders to share their views on how the future agriculture sector in Syria and in their host country might develop in a sustainable and robust manner that is neither driven by excessive optimism or pessimism and for policy makers to be made aware of potential side effects of their decisions and so to mitigate for these.

A scenario planning workshop introduced outcomes from WP 1.0 into participatory workshops in order to facilitate stakeholder discussion and prioritisation of important drivers of change, agreement on the definition and characteristics of a sustainable agriculture industry and identification stakeholder-led strategies/ policy interventions to improve long-term food security. This will result in discussion about a shared 5-year vision of food security and include strategy development exercises to generate different policy options around: livestock restocking, recovery of assets, land rights, access to markets, increasing social capital, promotion of knowledge and technology innovation and exchange and development of education and training programmes to increase technical competence and capacity at a local level to address short-term stakeholder-felt needs.

¹¹ Boden LA et al. (2017) Animal health surveillance in Scotland in 2030: Using scenario planning to develop strategies in the context of "Brexit". Frontiers in Veterinary Science, vol 4, no. NOV, 201; Boden, LA et al. (2015) Scenario planning: the future of the cattle & sheep industries in Scotland & their resiliency to disease. Preventive Veterinary Medicine, 121(3-4), pp. 353-364.

Background

In Syria, 12.4 million people are in need of food assistance¹² due to the sustained crisis since 2011. Nevertheless, agriculture is still considered an important part of Syria's economy and important for self-sufficiency for more than 75% of households who grow their own food for consumption. Capturing stakeholders' visions for the future of agriculture in Syria is now critical as attitudes and beliefs towards producing and consuming food will have changed considerably over the long duration of the conflict. Uncertainties about governance, weakened institutions and research funding and capacity constrain traditional opportunities for long-term contingency planning and inhibit access to local expertise, which is essential for timely, evidence-based decision-making. Interventions have understandably focused on survival and short-term food security needs (i.e., food supplies and agricultural inputs such as seeds, fertilisers, pesticides, animal vaccines), perhaps at the expense of longer-term strategic approaches which incorporate broader socio-economic or environmental considerations. This may result in unforeseen tensions between short- and long-term food security demands which could undermine resilience in the long-term. This is exacerbated by diminished regional and international collaborative research ties between researchers, universities, public institutions, national, international and United Nations (UN) agencies, producer organisations and the private sector. Although there is still excellent expert capacity remaining within Syria (with Syrian academics embedded within local and international NGOs, and governmental entities) it is also the case that there has been extensive loss of in-country human and intellectual capacity, as academics have been displaced from high-risk areas as a matter of safety and security. This has made it more challenging to connect local cultural knowledge with decision-makers who are responding to the crisis and trying to positively influence future societal rebuilding efforts based on social trust, cultural values and pluralism.

Approach

Scenario planning methodologies were employed to explore uncertainties associated with long-term drivers of change and to create a vision for the future of food security. Scenario planning is a transdisciplinary approach which brings together diverse groups of participants with different interests/beliefs to engage in qualitative structured long-term strategic thinking about the future. We drew on previous work which systematically explored the history and prioritisation of important drivers of long-term trends and developments in food security in the region as a starting point for this exercise. ¹³

Participatory workshops were held to facilitate stakeholder discussion and agreement on the definition and characteristics of a future vision for a sustainable agriculture industry through consideration of the following focal question:

"What is a desirable future for food security in Northwest Syria in 5 years' time?"

Although a "Whole-of-Syria" approach was acknowledged to be pragmatic, the geographical scope of the focal question was narrowed to consider only Northwest Syria to reflect the expertise and sphere of influence of the participants in the discussion as well as the variability and specificity of the region with respect to agricultural production.

¹² Food Security Cluster (2017) Food security situation in Syria: Expanded version of the Food Security Sector Humanitarian Needs Overview 2018. Whole of Syria Food Security Sector

¹³ Boden LA et al. (2019) Global Health and Food Security in Fragile and Conflict Affected States (FCAS) Syrian Academics and their Role in the Future of Food Security for Syria. Available at https://www.ed.ac.uk/files/atoms/files/ghafs_fullreport_eng_jan20.pdf

A "SWOT" (strengths, weaknesses, opportunities and threats) analysis was linked to strategy development exercises, which generated a number of policy options around: livestock production, land use, promotion of knowledge and technology innovation and exchange and development of education and training programmes to increase technical competence at a local level to address short-term stakeholder-felt needs¹⁴.

A detailed discussion of social, technological, economic, environmental and political drivers was conducted in 2019 at a roundtable discussion on the future of food security in fragile and conflict-affected states. A summary of critical uncertainties for the future of food security in Syria are presented in Table 1. Of these, three themes: displacement, natural resource management and agricultural policy were considered by participants as the critical axes underpinning any future scenario.

Key Messages

- Relevant, context-specific and interdisciplinary sources of intelligence may be neglected or excluded from intergovernmental, third sector and local initiatives, Nongovernmental Organisation (NGO)- or government-led social and development programmes.
- The aim of this work is to highlight the potential role and contributions of Syrian academics, and to facilitate a platform for dialogue between academics and practitioners in order to integrate local knowledge, cultural and scientific expertise to improve strategy development and prioritisation for long-term future planning.
- The emphasis of that dialogue is not to 'predict the future' but to create opportunities to discuss potential constraints and benefits, and to evaluate whether proposed policy and investment decisions are likely to be robust in the context of evolving uncertainties (Figure 1). As one participant highlighted, ""It's difficult to make plans even for the next six months in Syria."
- In this workshop, participants employed this framework to explore uncertainties associated with long-term drivers of change according to three axes: displacement, natural resource management and agricultural policy, in order to articulate vision for the future of food security over the next 5 years (Table 1).
- Participants stressed the importance of harmonising and centralising data curation, management and information sharing to ensure a coordinated approach in the region
- Participants devised a set of affordable, accessible and acceptable locally led interventions to improve agriculture and food security from production to consumption. In summary these included:
 - **Community-based actions** which should be incentivised and integrated into sustainable institutional arrangements capable of countering displacement and low connectivity.
 - **Technological change** which improves natural resource management when supported by an institutional framework structured around transnational and local efforts (e.g., networks of agricultural knowledge).
 - Improved links between food security, agricultural production, and international markets – which should be explored at the intersection of a

¹⁴ Boden LA et al. (2022) Syrian Food Futures: Visioning for the future of food security in Northwest Syria

¹⁵ Boden LA et al. (2019) Global Health and Food Security in Fragile and Conflict Affected States (FCAS) Syrian Academics and their Role in the Future of Food Security for Syria. Available at https://www.ed.ac.uk/files/atoms/files/ghafs_fullreport_eng_jan20.pdf Drivers of change: food and agricultural production in Syria since 1960 at pages 7-10

conflict-driven institutional landscape, the economic determination of long-term contingency planning, and the impacts of chronic global emergencies (e.g., the COVID-19 pandemic and Climate Change).

- Affordable, accessible and acceptable locally led interventions to improve agriculture and food security from production to consumption were proposed across a series of themes including crop and livestock production, other agricultural enterprises and land and water management. These included:
 - Community-based actions should be incentivised and integrated into sustainable institutional arrangements capable of countering displacement and low connectivity. This includes a graduation from relief initiatives to those focused on sustainability, self-reliance, cost recovery and women empowerment.
 - Technological change improves natural resource management when supported by an institutional framework structured around transnational and local efforts (e.g., networks of agricultural knowledge). Also, collaboration with the international institutions.
 - The links between food security, agricultural production, local and international markets should be explored at the intersection of a conflictdriven institutional landscape, the economic determination of long-term contingency planning, and the impacts of chronic global emergencies (e.g., the COVID-19 pandemic and Climate Change).
- The connectivity and resilience of Syrian food systems is addressed in terms of the
 constitution of sites of local knowledge-sharing about the culture and history of
 agriculture, food access, production, preparation and food behaviours. These
 networks of agricultural knowledge form the basis for the reconstruction of the
 agricultural sector, by counteracting conflict- and economic-driven deterritorialisation.
- The scenario planning workshop was a unique opportunity to facilitate dialogue between academics, researchers, practitioners and decision-makers with multidisciplinary expertise working towards food and health security in Syria. It prompted the development of strategic guidelines for a situated re-imagining of Syrian food futures, by questioning the legitimacy and relevance of the scenario planning rationale itself with respect to the specificity of the Syrian context

Next Steps

- I. To understand and trace the tensions between emerging paradigms of global public policy (state dynamics) prompted by the COVID-19 and Climate Change emergencies, and collective actions occurring at the community level linking knowledge networks into a pathway of food security (One Health) innovations.
- II. To re-imagine an agriculture network pathway:
 - a. Recognise the gendered nature of knowledge production/creation/transfer and of the appeal to agricultural innovations.
 - b. Horizontally connect local, transnational (displaced Syrians) and external (non-Syrian) expertise.
 - c. Vertically connect academic knowledge and local lore.
 - d. Re-found Syrian higher education around principles of knowledge co-creation and the critical assessment of international guidelines (exigencies) on food

- security innovations co-construct a One Health framework for the Syrian specificity as a means to scaffolding Syrian higher education.
- III. To determine the reach and impact of the resulting networks of (gender-critical) agricultural knowledge into various instances of institutional decision-making.

| Table 1. Critica | Table 1. Critical uncertainties (reproduced from Boden et al. 2019; Boden et al. 2022 ¹⁶). | | | | |
|--|--|--|--|--|--|
| | Displacement | Natural Resources | Agricultural Policy | | |
| High Impact and uncertainty | Lack of access to academic expertise which is no longer in country and cannot return Lack of access to veterinary services Increased role of women in the workforce | Increasing water poverty –reduction in groundwater levels and sources of replenishment for safe drinking, sanitation, irrigation. Dependency on water sources outside Syria (in Turkey) and elsewhere for replenishable water supply Preservation of natural resource heritage (i.e., genetic resources and seeds from loss Syrian forests). | Market forces (prices, value chains, agriculture as a private rather than public good) De-regulation and absence of strong institutions which are responsible for standards and certification of agricultural products (inputs such as pesticides, fertilisers etc.) Emergence of privately run and owned businesses Increase in black markets, counterfeit drugs and agricultural inputs. Changing donor funding priorities | | |
| Lower impact and uncertainty (modifying or underpinning drivers) | Competition from expatriate expertise from China, Russia, Iran (sent in to develop markets to feed their populations)- exacerbation of "brain drain" Kinship networks: sources of income, communication and expertise | Availability of fuel and machinery Transport: availability, accessibility of road network (mines, damage to infrastructure, security) Fire hazards (resulting from conflict activities) Climate change: increase in greenhouse gas emissions; extreme weather events such as drought, flooding; changes in distribution of pathogens, pests, vectors and hosts/reservoirs of infectious disease | Land ownership and tenure (response to legislation #10): availability, access, use for agriculture, ownership (by state or private) Porous borders and movements of people across them | | |

¹⁶ Boden LA et al. (2019) Global Health and Food Security in Fragile and Conflict Affected States (FCAS) Syrian Academics and their Role in the Future of Food Security for Syria. Available at https://www.ed.ac.uk/files/atoms/files/ghafs_fullreport_eng_jan20.pdf



Figure 1. Fragile Peace: A vision for the future of food security in Northwest Syria in the next 5 years (reproduced from Boden et al. 2022)

- **Increasing stability** and security in majority of regions within Syria; reduced frequency of security risks
- Return of externally displaced Syrians from host countries (Turkey, Jordan, Lebanon and Iraq)- dependent on political change and increased trust in government over time.
- **Return of internally displaced people** to their homes with new skills in food production.
- Development and integration of local knowledge (by academics, practitioners and organisations) into policy pathways and decision-making processes.
- Support for new businesses and economic development opportunities for returning displaced people
- Strengthening pipelines of expertise and data-driven approaches to decision-making
- Closing gaps in **trust between policy makers and people** to facilitate implementation of policy-decisions
- **Return of donors**, such as **World Bank**, which facilitates mobilization of people and products
- Infrastructure in place for effective decision-making and support for animal, plant and environmental health and

security

- Access to international markets and enhancement of local markets for agricultural products and food supply chains
- Climate-smart farming practices, that are driven by community led decision making.
- Self-determined policy and decision making that is balanced between community and state led
- · Access by farmers to fair distribution of resources

Table 2. Proposals for locally appropriate interventions to improve agricultural innovation (reproduced from Boden et al. 2021) **Crop production Livestock production Land Management** Other forms **Water Management** Production • Support for extension Collection bee Agroforestry approaches Beehive and services breeding - breeding for sustainable conservation of rainfall of silkworms • Focus on fodder crop development, Early warning systems to production for livestock. Cottage anticipate and prepare industries: conservation and rehabilitation in postyoghurt and cheese for drought Strengthening local markets, and marketing conflict times Restore water/irrigation production Support communities to canals - develop new practices utilise secondary plant technology systems for • Reducing pressure on grazing land through products) irrigation Encourage tree-planting • Use of alternative fodder improvement (to support soil health) energy sources (solar, Implementation of Support efforts to vaccination campaigns to biogas) and new improve biodiversity and technologies to support reduce risks of animal disease outbreaks conservation grey water recycling Reducing pressure on Improving access to artificial insemination to grazing land through improve productivity fodder improvement

4.COVID-19 Impact

The declaration of the COVID-19 pandemic in March 2020, and the subsequent restrictions and regulations imposed by governments around the world, had a significant impact on the delivery and outcomes of the SyrianFoodFutures project.

Foremost, the pandemic had a notable effect on food security, influencing research participants' access to food, healthcare, employment and financial status. As such, it affected participants' responses to interviews and questionnaires, and meant that interviews and questionnaires needed to be adapted to what impacts were now more relevant due to COVID-19 (e.g., border closures shifting focus to food access and loss of markets).

The health and safety of researchers and research participants and beneficiaries were of the utmost priority in this project. Travel from the UK to Turkey, Lebanon, Jordan and Iraqi Kurdistan was nearly impossible throughout the lifespan of the project and project work had to take place remotely and online. Instead, we needed to develop innovative remote ethnographic methods to obtain data:

- Survey interviews which would have otherwise been conducted face-to-face were conducted via WhatsApp;
- Research participants were invited to send in video diaries that they had filmed.

Travel restrictions also influenced the equality, diversity and inclusivity experienced within the project.

- Survey interviews over WhatsApp required participants to use phone cards and access to a smartphone;
- Sharing food diaries offered participants increased agency within the research project with
 respect to the types of data they wanted to share- something that is not typically achievable
 in traditional ethnographic methods where external researchers come into a community to
 collect data and then leave. However, these diaries may have presented a selective view of
 life under lockdown.
- Online workshops were not limited by access to different geographies, and real time translation capabilities meant that participation could be widened- but:
 - Subtle social cues which normally inform face-to-face facilitation, were more difficult to identify changing the dynamics of discussion.
 - Fatigue associated with extended periods of working online, meant that these workshops were necessarily shortened and activities adapted to improve the quality of participation.
 - Simultaneous translation became more complex via zoom, requiring breakout groups to be split into "English speaking only", and "mixed English and Arabic speaking".
 - Workshop organisers prepared materials for circulation to participants for comment in advance improving stakeholder engagement
 - Introverted participants were able to contribute via online messages, improving their experience.

Despite these limitations, the unintended positive consequences of online interactions meant it was still feasible to collect robust, rich and highly relevant data and to provide a supportive and more equitable research environment during a challenging time. Research personnel commented:

"People wanted to talk and have someone to listen to them. All participants understood that we were contacting them to fill out a survey, and still felt the need to share their story, what they are going through and the challenges they were facing, just for the sake of talking."

5. Discussion and Conclusions

Stories of the Syrian conflict and its impact on food culture have been documented through narratives (i.e., telling stories, letting stories be heard, etc.). However, certain memories, and experiences may be excluded, which render important emotional and psychological dimensions or responses invisible to strategic planners and decision-makers.

In this project, we have attempted to document a local, culturally appropriate and scientifically robust evidence-base to underpin decisions about food security interventions and social development programmes which combine lessons learned from traditional and historical approaches with new technologies and expertise to inform best-practice guidelines for agriculture in Syria. Concurrently, we explored existing knowledge gaps (based on the literature, interviews and focus groups) to understand differences between cultural needs/rights and scientific inputs necessary for decision-making.

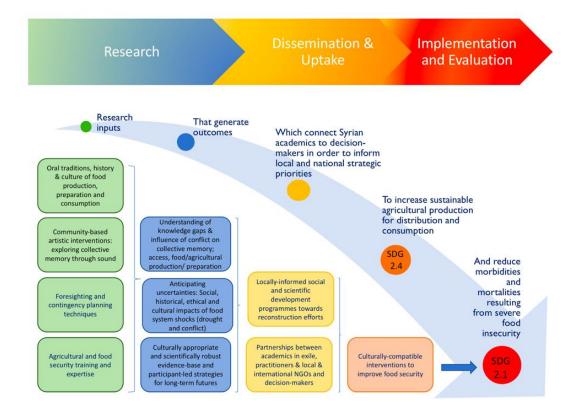
Through facilitated discussion and a series of structured processes, all partners, despite power asymmetries, had an opportunity to participate and make an equitable contribution to dialogue that would otherwise traditionally be restricted to scientists and government civil servants. Scenario planning and other related activities conducted within this project facilitated the creation of a new knowledge network and empowered individuals to take responsibility and interest in these issues. Data derived from scenario planning (i.e., priority risks to heath/welfare; industry drivers of change; scenario narratives and stakeholder impact assessments) was used for strategic planning and delivery of a stakeholder-led foresight report on Syrian's view of the future of food security in Syria which identified and prioritised strategic interventions, education, training and research activities.

A unique feature of this project was the complementary participatory artistic interventions (which included collecting music and hums of tunes related to food production and consumption) to stimulate debate and further insight about social, historical, ethical and cultural impacts of food system shocks and resultant acute and chronic food insecurity. This element of the project will inform current and future individual and collective mechanisms for various healing processes and the different dimensions of the impact of the conflict on food security, which is being shared within families, schools and communities in Turkey (Lebanon and Jordan).

6. Impact

The ultimate impacts of this project were to:

- 1. Capture individual and group-level data and knowledge about practical, cultural and emotional impacts of the conflict on food access, production and preparation;
- 2. Build local interdisciplinary research capacity and expertise in qualitative and quantitative techniques, including foresighting and strategic planning;
- 3. Bring together (online) a geographically dispersed Syrian academic community (located in Syria, Turkey, Lebanon and Jordan) in an effort to connect them with transboundary public-private organisations involved in food security so that local cultural and technical expertise is included in future strategic planning efforts for Syria; and
- 4. Establish longer-term UK-Syria-Turkey research networks such that Syrian academics in exile can horizon-scan, mobilise resources and research partnerships to respond to future funding opportunities.



It is increasingly recognised that whilst HE institutions are often targeted during periods of conflict, they also have the capacity to be part of reconstruction efforts. There is currently a wealth of local knowledge, connection and expertise offered by Syrian academics in exile; a major part of Syria's intellectual and cultural capital that has been largely ignored by the intelligence gathering and analysis activities informing humanitarian responses to the crisis.

This project *strengthened partnerships* and extended a network of expertise which has been developed between local displaced academics, practitioners living in Syria and surrounding refugee host countries such as Turkey, Jordan and Lebanon, and research partners in the Universities of Edinburgh, Kent and Aberdeen (through our project partner Cara Syria) and the University of Aleppo (in the liberated area). The project also strengthened interdisciplinary working relationships within the Cara Syria network of Syrian academics, living in exile in Turkey, where the greatest number have sought refuge.

7. Recommendations

The long-term legacy of the project lies in the scalability of its outcomes. Creating sustainable communication pathways at the science-"policy"-industry interface, complemented by capacity building in knowledge-brokering and foresighting expertise, means that as this network grows in the future, members can apply these approaches themselves and train others to use them to address food security or other long-term strategic questions in the future. Immediate benefits include:

- 1. Access to a *network of diverse UK- Syrian-Turkish expertise* which can sustainably connect with decision-makers in local and international NGO to identify priorities in research, training and education; provide a robust evidence-base which should inform and improve delivery of locally compatible food-security interventions and direct future research funding agendas.
- 2. Access to *foresight training* to create a "futures toolkit" for Syrian academics to utilise in other contexts and *prioritisation* of the critical drivers for the future of the Syrian agriculture (specifically crop and livestock production).
- 3. Support-provision for science policy communication and knowledge exchange. This will include delivery of a stakeholder-led foresight report on the future of food security in Syria which will identify what strategies are needed, by whom they will be implemented and how they will perform against a range of future conditions.
- 4. Widening participation to Syrians non-academics through public engagement activities (e.g., Syrian Humming Project with <u>Arthere</u> space in Istanbul).
- 5. Identification and co-construction with CARA Syria Programme and relevant NGOs, education, training and future research priorities for implementation in future phases of the project (subsequent to funding opportunities).

Appendix 1.

Publications

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