

# The Skills for Industry Project :

## Insights from global data

Presentation for the „FOBBIZ-Talk“ series on 25 October 2022

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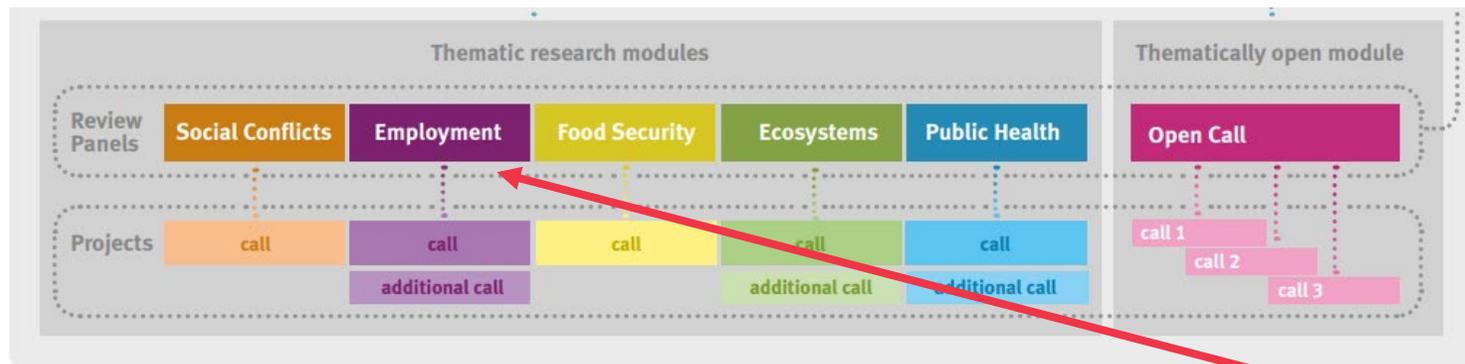
Professor of Vocational Education, Zurich University of Teacher Education PHZH, Switzerland

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orange & teal

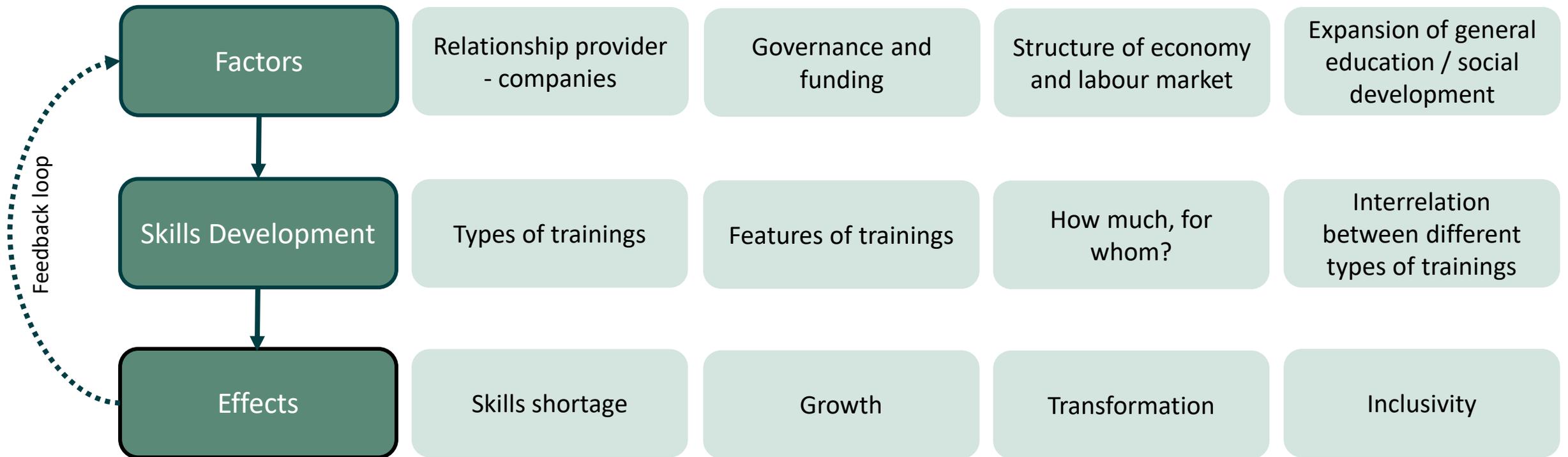
# The r4d programme (research for development)

- A research programme jointly funded by the Swiss National Science Foundation (SNSF) and the Swiss Development and Cooperation Agency (SDC)
- Objective: Research findings to contribute to implementation of Sustainable Development Goals (SDG)



The Skills for Industry Project

# Our theoretical model



# Focus of the Skills for Industry Project

## Industries

Garment (BD, CB, ET, LA, SA, VI)

Food and Beverage (CB, LA, SA, VI)

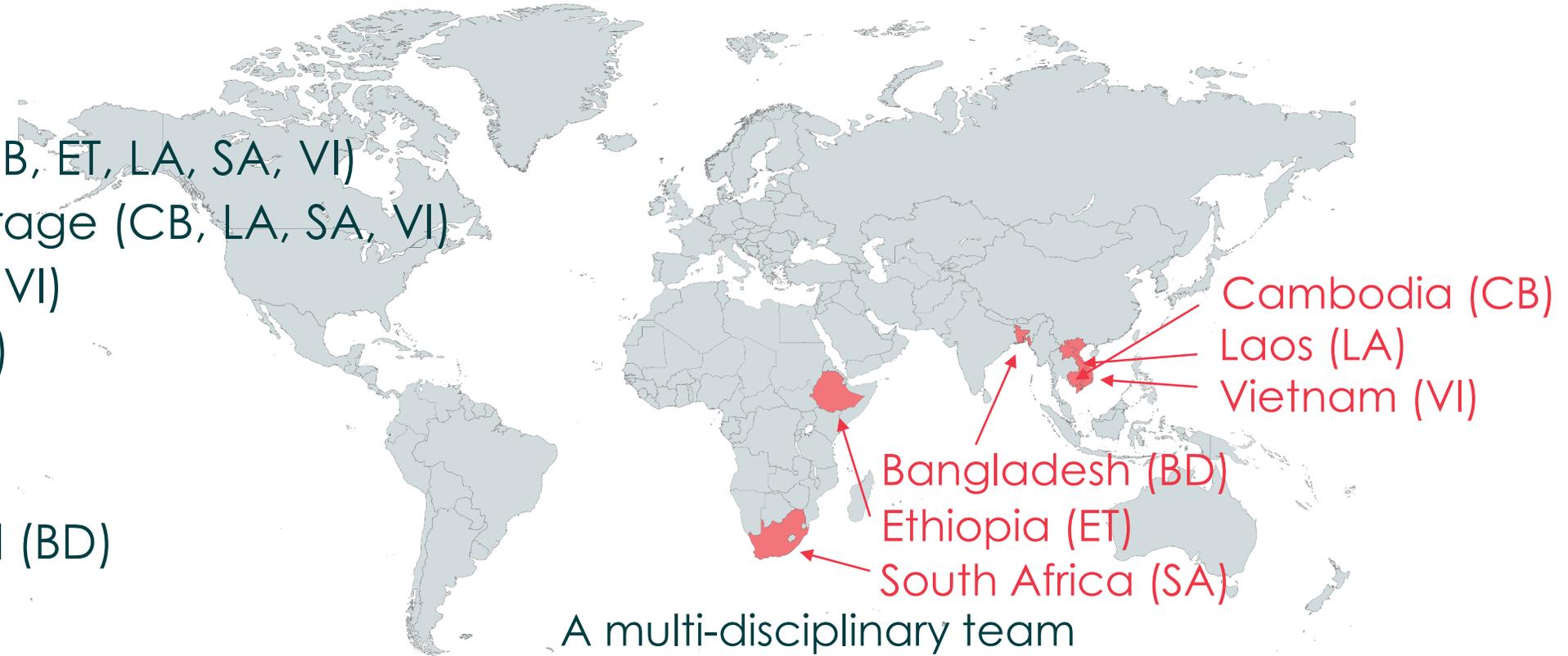
Electronics (CB, VI)

Automotive (SA)

Leather (ET)

Metal (ET)

Pharmaceutical (BD)



Cambodia (CB)

Laos (LA)

Vietnam (VI)

Bangladesh (BD)

Ethiopia (ET)

South Africa (SA)

A multi-disciplinary team

Education; economics; sociology; engineering

# Skills for Industry Data Set

Phase 1 (2017 – 2020)

**Company  
survey**

847 companies

**Company  
case studies**

108 companies

Phase 2 (ongoing)

**Interviews:  
Training  
providers**  
80 - 120  
interviews

**Interviews:  
Industry  
associations**  
20 – 40  
interviews

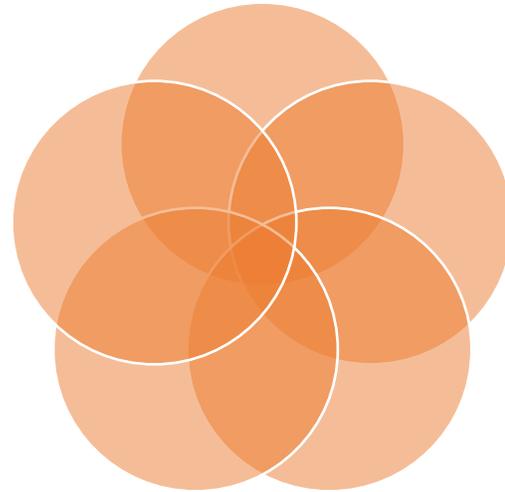
**Interviews:  
Governing  
bodies**  
40 – 80  
interviews



# Our aims

Influence academic  
debate on skills  
development

Inform designers and  
implementers of skills  
development  
programmes



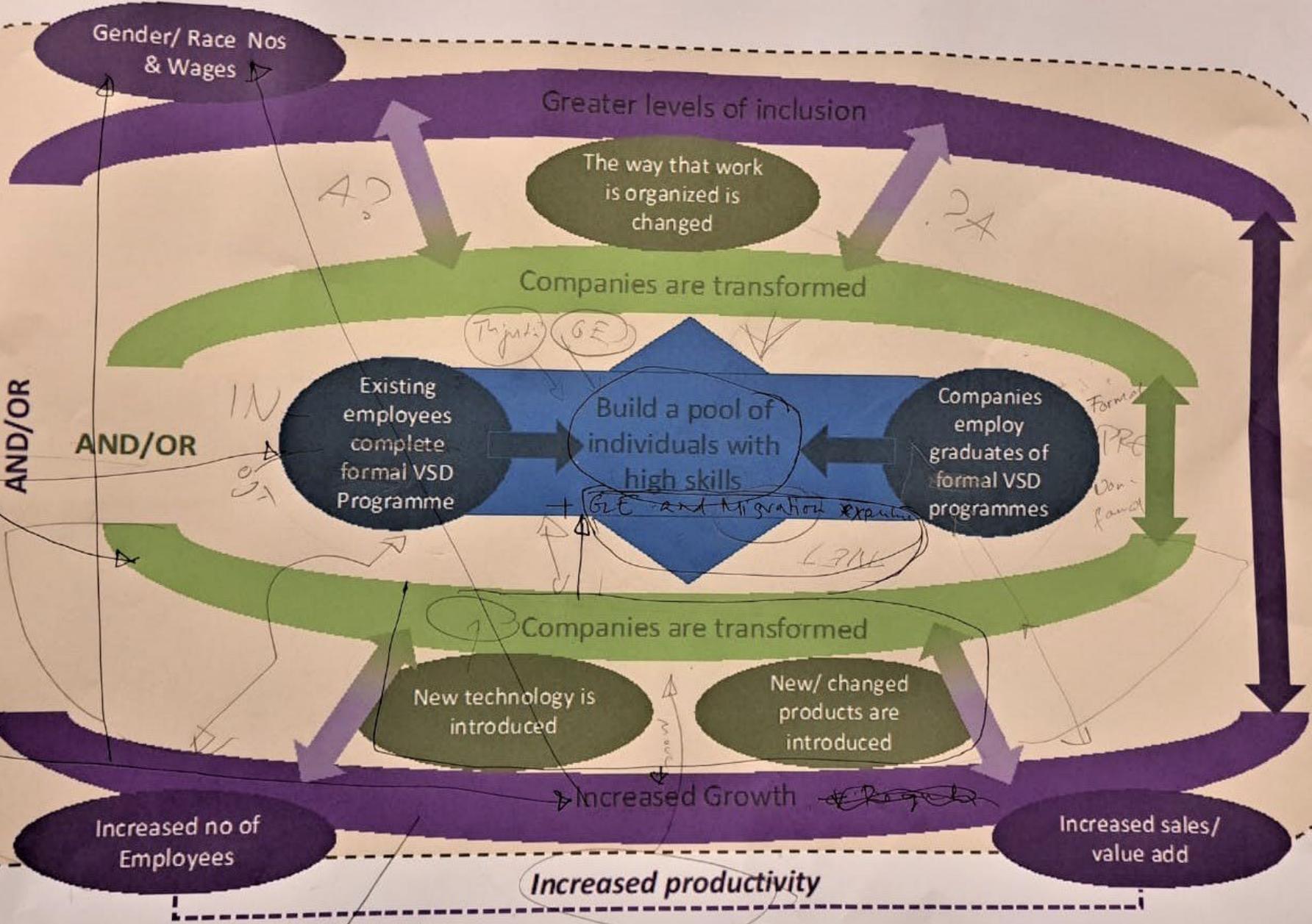
Inform the policy  
debate



# Preliminary findings



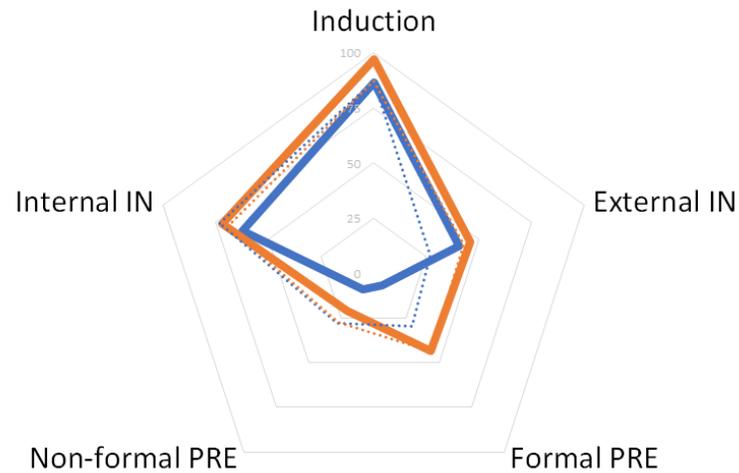
The internal company context and external environmental context



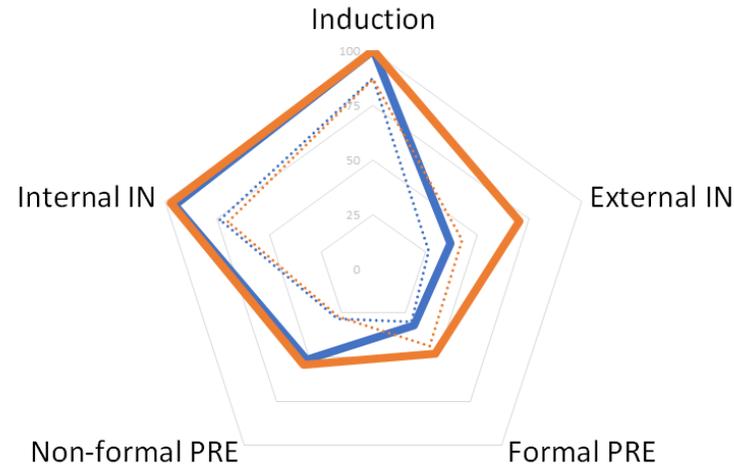
Relb  
 G/A  
 Spuch  
 Econ  
 Expa  
 GE

Inclusion = A1  
 = A2

# Differences in training & training uptake between countries



Ethiopia



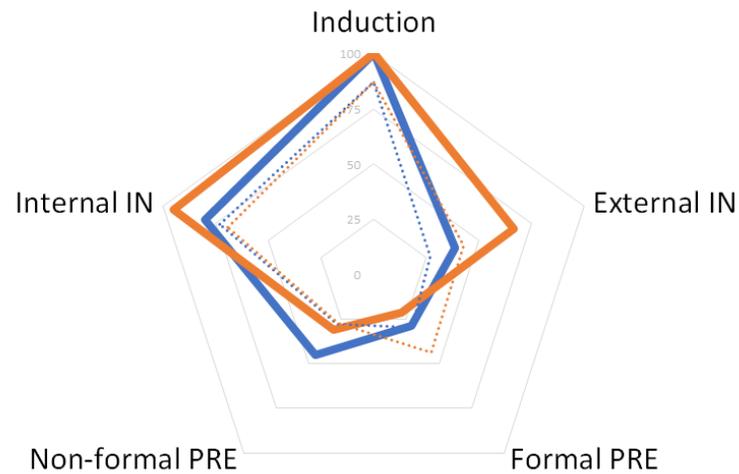
Vietnam

**Blue:** medium-skilled workers  
**Orange:** highly-skilled workers  
**PRE:** pre-employment training  
**IN:** in-employment training

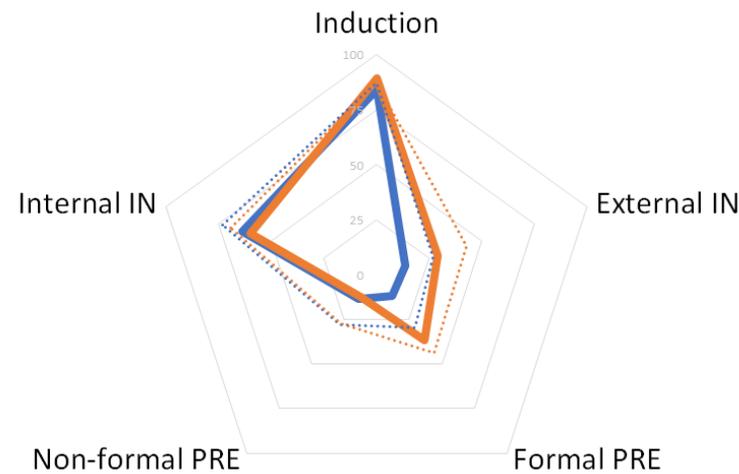
Source: Phase 1 data

# Differences in training & training uptake between industries

**Blue:** medium-skilled workers  
**Orange:** highly-skilled workers  
**PRE:** pre-employment training  
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Automobile



Garments

# Some differences in uptake can be explained ...

	General workers	Operators	Supervisors	Technicians
<b>Firm Characteristics</b>				
Age (years)	-	+	+	+
Foreign ownership		-	+	-
<b>Firm Dynamics</b>				
Change to more advanced products				+
Exporting	+	+	+	+
<b>Industry/ Sector Characteristics</b>				
Sector is a net-importer (import competition)			+	+
Main export destination: High Income countries		+	+	+

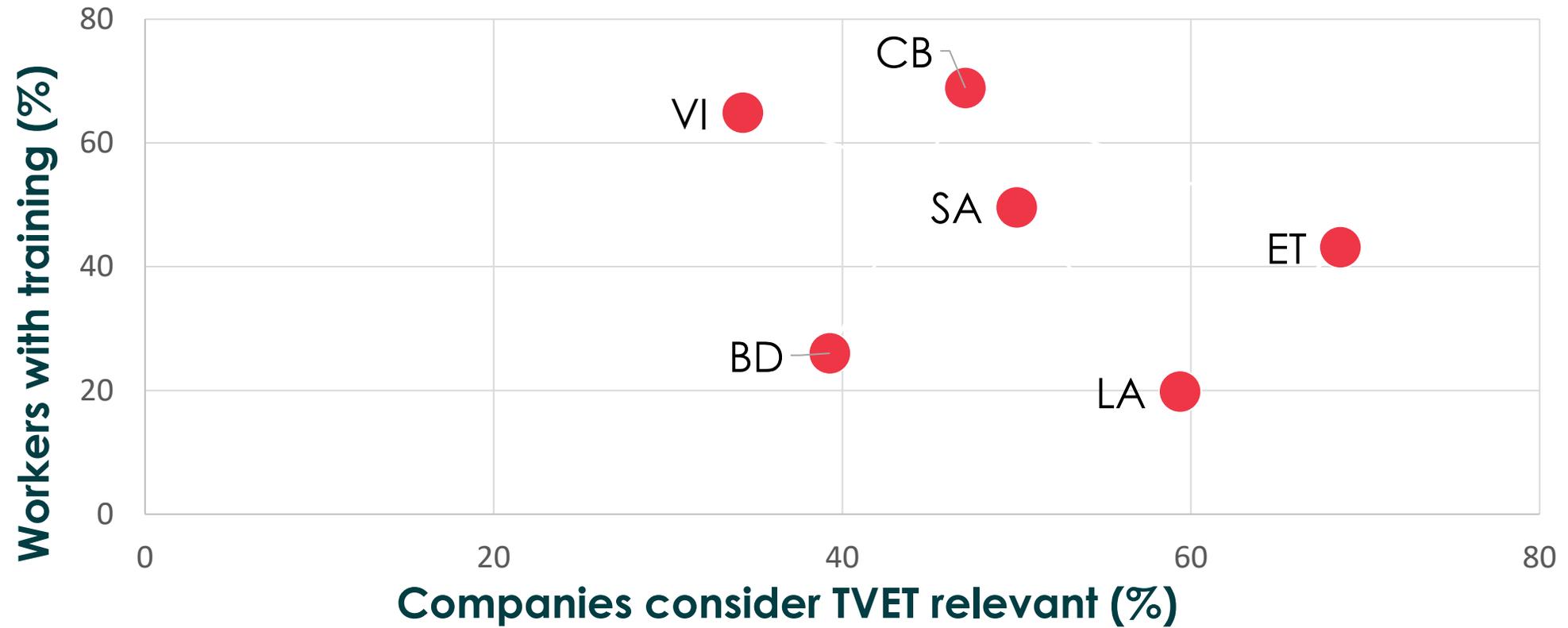
**Red (+):** firms with this characteristic report a higher uptake of formal VSDs

**Green (-):** firms with this characteristic report a lower uptake of formal VSDs

Source: Phase 1 data



## ... others not (yet)



Source: Phase 1 data

# Highly complex interactions with transformation

- Industrial transformation has resulted in the need for new and more skills
- Complex two-way interaction between skills development and transformation
- Perception that (formally) skilled employees adopt quicker to transformation
- Common to use technical support from machine suppliers and/or buyers.
- View that on-the-job informal or non-formal training are also important in companies for responding quickly to transformation



# Inclusive growth?

<b>Change (2012-2017, %)</b>	<b>General Workers</b>	<b>Operators</b>	<b>Supervisors</b>	<b>Technicians</b>	<b>Higher Managem.</b>
Bangladesh	17	6	9	5	5
Cambodia	25	20	15	22	23
Ethiopia	2	4	9	6	6
Laos	9	9	9	4	9
South Africa	14	6	10	1	-2
Vietnam	12	6	2	0	16



# Discussion



See also: Maurer & Marks, 2021

# Questions

- What confirms your own observations, what do you find surprising?
- Are there (emerging) implications for what development partners can / should do resp. not do?

# Project publications (selection)

- Allais, S., Schoer, V., Marock, C., Kgalema, V., Ramulongo, N., & Sibiya, T. (2021). Rethinking 'supply and demand' of technical and vocational education and training: insights from a company survey in three manufacturing sectors in South Africa. *Journal of Education and Work*, 34(5-6), 649-662. doi: 10.1080/13639080.2021.1967302
- Kalam, M. A., & Shimu, S. S. (2020). Perceived Roles of Skills in Growth and Transformation of Ready Made Garments and Pharmaceutical Industries in Bangladesh: Results from an Industry Survey. *Asian Journal of Education and Training*, 6(4), 671-682. doi: <https://doi.org/10.20448/journal.522.2020.64.671.682>
- Maurer, M., Morlok, M., Khammounty, B., & Teutoburg-Weiss, H. (2019). *Boosting Growth and Transformation in Laos' Industry*. Zurich: Zurich University of Teacher Education.
- Maurer, M., & Marks, A. (2021). Industrielle Transformation in Entwicklungs- und Schwellenländern: Reicht Bildung on-the-job? *Newsletter Transfer*, 3. Online: <https://sgab-srfp.ch/reicht-bildung-on-the-job/> [14.10.2022].
- Maurer, M., & Morshed, M. (2022). Promoting the Recognition of Prior Learning (RPL) in the context of development cooperation: The case of Bangladesh. *International Journal of Educational Development*. doi: <https://doi.org/10.1016/j.ijedudev.2022.102592>
- Morlok, M., Teutoburg-Weiss, H., Khounvilay, K., Nguyen, H. L., & Ven, S. (2022). Achieving inclusive growth? Wage dynamics in Cambodia, Laos and Vietnam. *Development Studies Research*, 9(1). doi: <https://doi.org/10.1080/21665095.2022.2116347>

