
WORKING, EARNING, LEARNING IN THE AGE OF INTELLIGENT TOOLS

The Berkeley WITS Project

November 29, 2017-December 1, 2017

UC Berkeley, Berkeley CA

Organized in collaboration with the Organization for Economic Co-operation and Development, as a contribution to the Going Digital project.

The Kauffman Foundation has provided substantial support and encouragement.

Other groups providing support are:

- * *Berkeley Roundtable on the International Economy (BRIE- BRIE/ ETLA)*
- * *Center for Human Adapted Artificial Intelligence (CHAI)*
- * *Center for Information Technology Research in the Interests of Society (CITRIS),
University of California*
- * *Community and Regional Development Program, U.C. Davis*
- * *The American Jobs Project*
- * *The German Federal Ministry for Labor and Social Affairs*
- * *The German Academic Exchange Service (DAAD)*
- * *The Institute of European Studies*
- * *The Stanford Silicon Valley-New Japan Project*

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Making the transformation work for growth and well-being



WORKING, EARNING, LEARNING IN THE AGE OF INTELLIGENT TOOLS

PROGRAM

November 29, 2017-December 1, 2017
University of California Berkeley, Berkeley CA

Wednesday, November 29, 2017

7:00pm

Reception/Dinner at the Claremont Hotel: Reception A

Multiplicity: Insights from AI and IA on New Ways to Work and Learn (20')

Ken Goldberg

William S. Floyd Jr. Distinguished Chair in Engineering, UC Berkeley; Chair and Professor, Industrial Engineering/Operations Research Department; Director of AUTOLAB and CITRIS "People and Robots" Initiative

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Thursday, November 30, 2017

Location for morning sessions: Seaborg Room, Men's Faculty Club

8:30am-
10:15am

T1:

Introduction

Chair:

John Zysman

*Professor Emeritus, BRIE Founder/Co-Director, Convener- WITS
University of California, Berkeley*

1. Welcomes from each side (15 minutes)

- Berkeley
 - * *Paul Alivisatos*
Executive Vice Chancellor and Provost, UC Berkeley
 - * *Shankar Sastry*
Dean of the College of Engineering, UC Berkeley
 - * *Costas Spanos*
Director CITRIS and the Banatao Institute, Distinguished Professor of EECS; Chief Technical Officer of the Berkeley Education Alliance for Research in Singapore, UC Berkeley
- OECD
 - * *Andrew Wyckoff*
OECD, Director, Directorate for Science, Technology and Innovation (the OECD Going Digital project: an overview)
 - * *Stefano Scarpetta*
OECD, Director, Directorate for Employment, Labour and Social Affairs
 - * *Montserrat Gomendio*
OECD, Deputy Director, Directorate for Education and Skills, Head of the OECD Centre for Skills

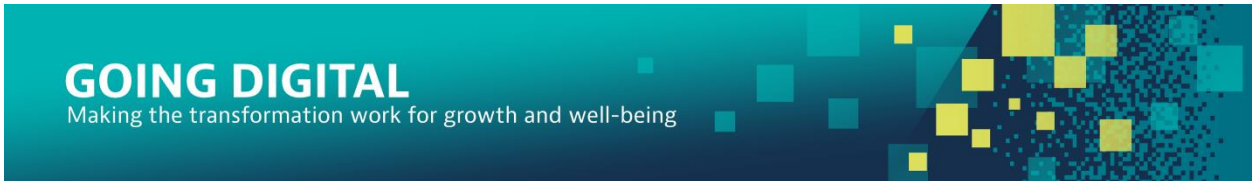
2. Opening presentations

- OECD Presentation
 - "The OECD Going Digital project: an overview" (15')
 - * *Andrew Wyckoff, OECD*
 - The "Future of work" project and the OECD Job Strategy: an overview (15')
 - * *Stefano Scarpetta, OECD*
 - Overview of the "Jobs and Skills" pillar of the "Going Digital" project: key issues and policy relevant questions addressed (13')
 - * *Mariagrazia Squicciarini*
OECD, Directorate for Science, Technology and Industry, Senior Economist
 - Overview of the "2019 Skills Outlook on Skills and Digitalisation" (13')
 - * *Stéphanie Jamet*
OECD, Directorate for Education and Skills (EDU), Senior Economist

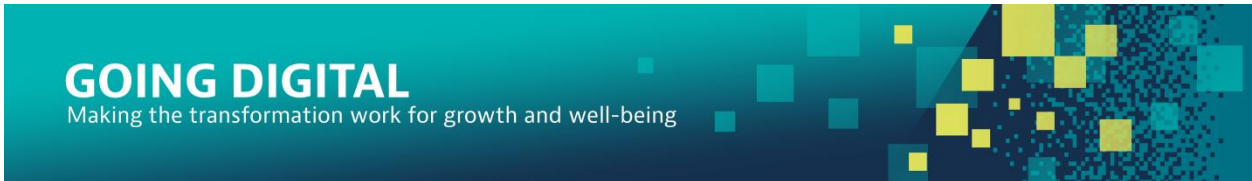
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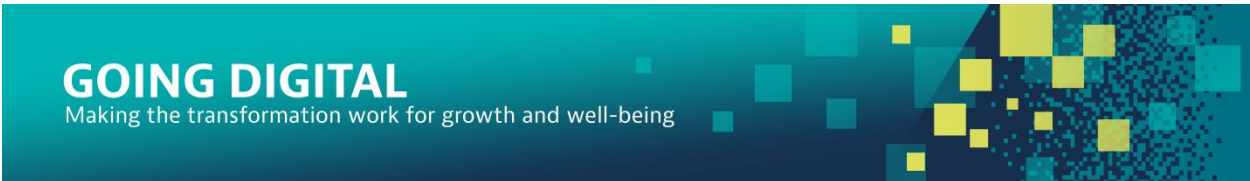
	<ul style="list-style-type: none"> • Bay Area View <ul style="list-style-type: none"> ○ Berkeley Project: Concerns and directions presentation for our purposes and directions <ul style="list-style-type: none"> * <i>Laura Tyson</i> <i>Distinguished Professor of the Graduate School and Faculty Director of the Institute for Business & Social Impact, UC Berkeley Haas School of Business; Chair, Blum Center for Developing Economies</i> ○ Company concerns: Proposed speakers <ul style="list-style-type: none"> * <i>Hal Varian (15')</i> <i>Chief Economist, Google</i> * <i>Stephane Kasriel</i> <i>CEO, Upwork</i> <p>3. Initial discussion of plans and issues</p> <p><i>Coffee Break</i></p>
10:30am-12:15pm	<p>T2: Employment, Labor Markets, and Social Policy: Part I: The Numbers- What do we believe the facts to be?</p> <p>Chairs:</p> <p><i>Jennifer Granholm</i> <i>Faculty Member at UC Berkeley's Goldman School of Public Policy; Senior Advisor, CITRIS; Former Governor of Michigan</i></p> <p><i>John Zysman</i></p> <ol style="list-style-type: none"> 1. OECD Presentation on Employment Social Policy <ul style="list-style-type: none"> • The OECD Future of Work initiative: key issues and policy relevant questions addressed (15') <ul style="list-style-type: none"> * <i>Stefano Scarpetta, OECD</i> • First findings from OECD work addressing jobs, labour market mobility, middle occupations and social protection (15') <ul style="list-style-type: none"> * <i>Stijn Broecke</i> <i>OECD, Senior Economist, Directorate of Employment, Labour and Social Affairs (ELS)</i> 2. McKinsey (abbreviated statement) <ul style="list-style-type: none"> * <i>Susan Lund</i> <i>Partner, McKinsey Global Institute</i> 3. Berkeley Comments: Discussants include: <ul style="list-style-type: none"> * <i>Brad DeLong</i> <i>Professor of Economics, UC Berkeley</i> * <i>Laura Tyson</i> * <i>Giovanni Dosi</i> <i>Professor of Economics and Director of Institute of Economics, Scuola Superiore Sant'Anna</i> 4. Open Discussion
Lunch Break: Logistics	Lunch at Women's Faculty Club



require group to be separated	
Location of afternoon sessions: Seaborg room, Men's Faculty Club	
1:30pm-4:00 pm	<p>T3: Emerging Technologies and Their Implications for Work and Skills Chair: <i>Costas Spanos</i></p> <ol style="list-style-type: none"> 1. OECD Presentation <ul style="list-style-type: none"> • Key insights from the Next Production Revolution and the vectors of the digital transformation (20') <ul style="list-style-type: none"> * <i>Andrew Wyckoff, OECD</i> • Addressing the need for a coordinated policy approach: The OECD Centre for Skills (20') <ul style="list-style-type: none"> * <i>Montserrat Gomendio, OECD</i> 2. Berkeley Technology Presentations: Tentative list and possible participants <ul style="list-style-type: none"> • Next Steps in Manufacturing including 3D printing (15') <ul style="list-style-type: none"> * <i>Bjoern Hartmann</i> Associate Professor in EECS, Faculty Director of the Jacobs Institute for Design Innovation, UC Berkeley • Transportation in the digital era (15') <ul style="list-style-type: none"> * <i>Alexandre Bayen</i> Professor of EECS and Civil and Environmental Engineering and Director of the Institute of Transportation Studies, UC Berkeley • The Digital Reworking of Logistics (15') <ul style="list-style-type: none"> * <i>Phil Kaminsky</i> Professor of Industrial Engineering and Operations and Executive Associate Dean of the College of Engineering, UC Berkeley • AI and its implications (15') <ul style="list-style-type: none"> * <i>Mark Nitzberg</i> Executive Director of the Center for Human-Compatible Artificial Intelligence • Synthesis (15') <ul style="list-style-type: none"> * <i>Stuart Feldman</i> Head of Schmidt Sciences, Schmidt Sciences <p><i>Coffee Break</i></p>



<p>4:15-5:45pm</p>	<p>T4: Employment, Labor Markets and Social Policy Part II: The Implications Chairs: <i>Jennifer Granholm</i> <i>John Zysman</i></p> <p>1. Berkeley Opening: * <i>Jennifer Granholm (15')</i> * <i>Annette Bernhardt (15')</i> <i>Director, Low-Wage Work Program, Center for Labor Research and Education; Senior Researcher, Institute for Research on Labor and Employment</i> * <i>Lenny Mendonca (15')</i> <i>Senior Project Emeritus, McKinsey</i></p> <p>OECD Discussion * <i>Stefano Scarpetta, OECD</i></p> <p>2. Discussion: * <i>Saadia Zahidi</i> <i>Head of Education, Gender and Work; Member of the Executive Committee: World Economic Forum</i></p>
<p>6:00pm</p>	<p>Reception/Dinner at the Claremont Hotel: Reception B</p> <p>Presentation by McKinsey (30') * <i>Susan Lund</i></p>



Friday, December 1, 2017

Location for morning sessions: Seaborg Room, Men's Faculty Club

8:30am-
10:30am

F1:
Venture Capital Views on the Future of Skills and Work

Chair: *John Zysman*

- * *Mark Kvamme (20')*
Co-founder and Partner, Drive Capital
- * *Michael Borrus (20')*
Founding Partner, XSeed Capital; Co-Founder, BRIE
- * *Patrick Scaglia (20')*
Managing Partner, Blue Bear Ventures; Co-founder, CITRIS Foundry Accelerator
- * *Martin Kenney (20')*
Distinguished Professor of Community and Regional Development, UC Davis
- * *Tim O'Reilly (20')*
CEO, O'Reilly Media

Coffee Break

11:00am-
12:15pm

F2:
National Perspectives

Chairs:

Laura Tyson
John Zysman

1. China: *Martin Kenney (10')*
2. Denmark: *Hanne Shapiro (10')*
Business owner, Hanne Shapiro Futures
Niels Christian Nielsen (10')
CEO, World Refugee Schools
3. Finland: *Petri Rouvinen (10')*
Research Director, Research Institute of the Finish Economy (ETLA); CEO,
Etlatiето (a subsidiary of ETLA)
4. Germany: *Helmut Krcmar (10')*
Chair of Information Systems, Department of Computer Science, Technische
Universitat Munchen
5. Japan: *Kenji Kushida (10')*
Research Scholar, Stanford University; Research Affiliate, BRIE
6. World Economic Forum: *Saadia Zahidi (10')*

Lunch Break

Lunch served at the Men's Faculty Club

Location for afternoon sessions: CITRIS board room

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<p>2:30pm- 4:45pm</p>	<p>F3: Implications for Education and Lifelong Learning</p> <p>Chairs:</p> <p><i>Laura Tyson</i> <i>John Zysman</i> <i>Chris Edley</i></p> <p><i>Distinguished Professor and former Dean of the School of Law; Co-Founder and President, the Opportunity Institute, University of California, Berkeley</i></p> <p>1. Presentations:</p> <ul style="list-style-type: none"> • OECD Presentation of key issues and policy challenges (30') <ul style="list-style-type: none"> * <i>Andreas Schleicher</i> <i>OECD, Director, Directorate of Education and Skills</i> • How the public thinks about automation in the workplace and the fate of jobs <ul style="list-style-type: none"> * <i>Lee Rainie</i> <i>Pew Research Center, Director of Internet and Technology Research</i> • Digital Innovation in Education <ul style="list-style-type: none"> * <i>Niels C. Nielsen</i> • Moving across jobs: mapping skills distances to inform training needs <ul style="list-style-type: none"> * <i>Mariagrazia Squicciarini and Stéphanie Jamet, OECD</i> <p>2. Discussion:</p> <ul style="list-style-type: none"> * <i>Hanne Shapiro</i> * <i>Claire Tomlin</i> <i>Charles A. Desoer Chair in the College of Engineering, Professor in EECS at UC Berkeley</i> * <i>Mary Walshok</i> <i>Dean of the University Extension and Associate Vice Chancellor for Public Programs, UC San Diego</i>
<p>4:45- 5:00pm</p>	<p>F4: Summary and Further Steps</p> <p>Chair:</p> <p><i>Laura Tyson</i></p> <p>1. Options: Berkeley Work 2. Options and next steps for OECD</p>

