



AESIS

NETWORK FOR
ADVANCING & EVALUATING THE SOCIETAL IMPACT OF SCIENCE

National Museum of the American Indian - 17 & 18 October 2019

*Welcome to the third international **AESIS** conference on*

Impact of Social Sciences and Humanities on Society





The Impact of Social Sciences and Humanities on Society

17-18 October 2019, Washington DC

Welcoming Words

Frank Zwetsloot

Founding Director of the AESIS Network



The Impact of Social Sciences and Humanities on Society

17-18 October 2019, Washington DC

Welcoming Words

Alan Leshner

Interim CEO of the American Association for the Advancement of Science



The Impact of Social Sciences and Humanities on Society

17-18 October 2019, Washington DC

Welcoming Words

David Penney

*Associate Director of Museum Scholarship, National Museum of the
American Indian*



The Impact of Social Sciences and Humanities on Society

17-18 October 2019, Washington DC

Rasmuson Theater, 9.15-11am

Plenary opening

Edward Liebow

James Grossman

Vivian Tseng

Kenneth Prewitt

David Budtz Pedersen

A decorative background at the top of the slide featuring a network diagram with red and black nodes connected by lines, set against a light red and white background.

The Impact of Social Sciences and Humanities on Society

17-18 October 2019, Washington DC

Rasmuson Theater, 9.15-11am

Edward Liebow

*Chair of the Consortium of Social Science Associations &
Executive Director of the American Anthropological Association*

SOCIAL SCIENCE RESEARCH & ITS IMPACTS

**Edward Liebow, COSSA Chair and
Executive Director, American Anthropological Association**

ELiebow@AmericanAnthro.org

Network for Advancing and Evaluating the Societal Impact of Science (AESIS Network)
The Impact of Social Sciences & Humanities on Society
Washington, DC
October 2019



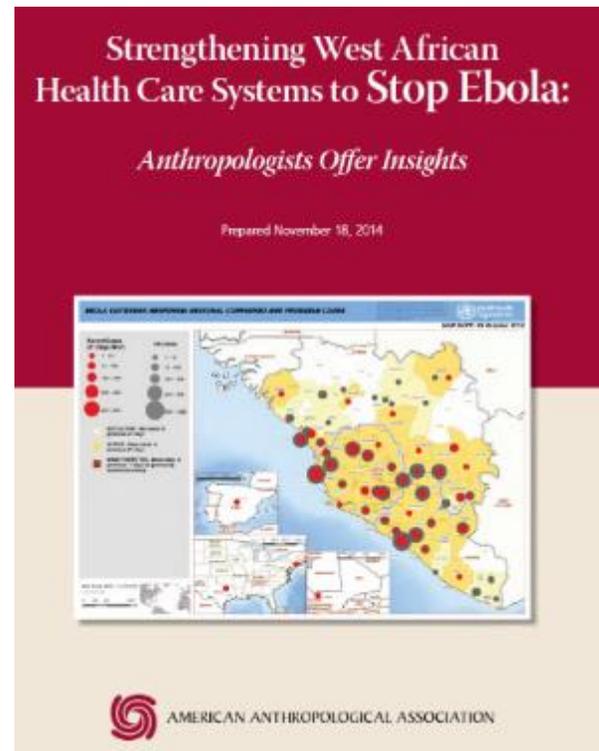
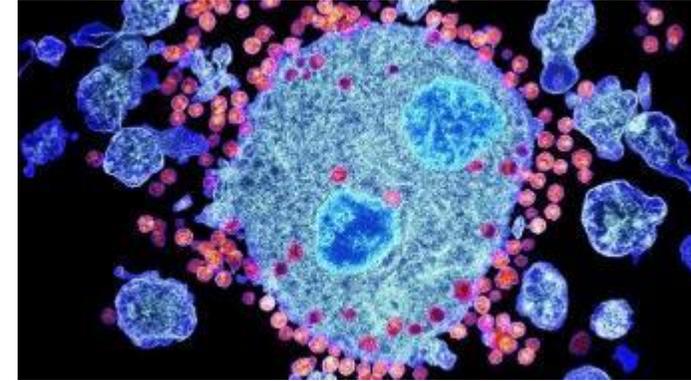
American Anthropological Association
Advancing Knowledge, Solving Human Problems



CONSORTIUM of SOCIAL SCIENCE ASSOCIATIONS

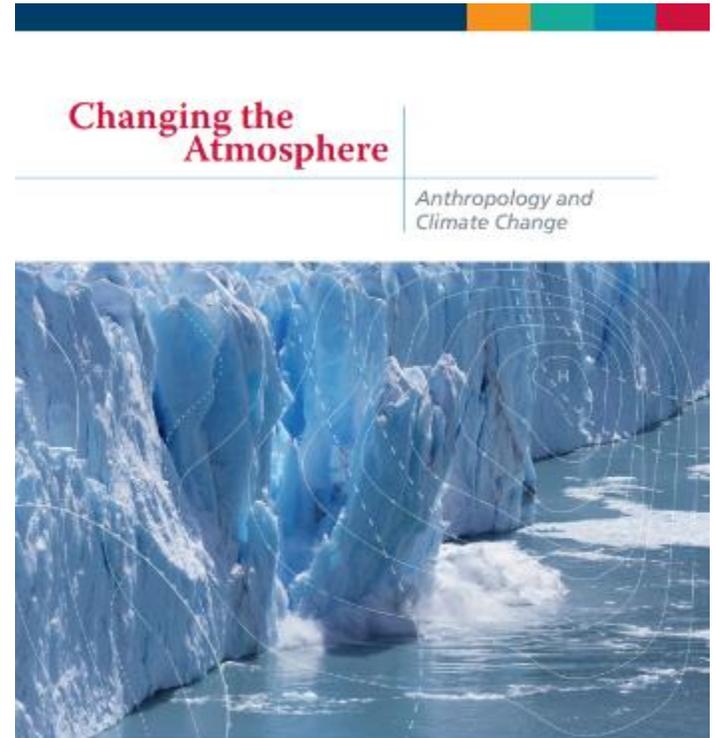
BECAUSE OF THE WORK WE DO, WE ARE:

- ✓ Combating “hidden hunger” in infants and young children
- ✓ Promoting breast and cervical cancer screening
- ✓ Protecting people from exposure to harmful chemicals in the environment
- ✓ Stopping Ebola in West Africa by understanding local funeral practices
- ✓ Reducing errors in medical testing
- ✓ Being able to talk with people about the ongoing change in their lives and how to better cope with risk and uncertainty
- ✓ Celebrating and preserving cultural heritage through museums and festivals, protecting historic properties for future generations by documenting their importance
- ✓ Working with the World Bank and UNESCO to make sure that development proposals include loan underwriting provisions that protect important heritage sites
- ✓ Providing expert testimony in asylum cases about conditions that make it unsafe to send someone back to a place where they face harm
- ✓ Documenting the impacts of displacement, the division of families, and deportations



WHY ASSESS IMPACTS?

- ✓ **Helps to justify future research expenditures**
- ✓ **Assists in setting priorities for future research**
- ✓ **Guides the conduct of research to enhance its downstream impact**
- ✓ **Improves accountability to taxpayers, investors, and decision-makers**
- ✓ **Generates a higher public profile**
- ✓ **Complies with government requirements for performance measurement**



Prepared September 2017

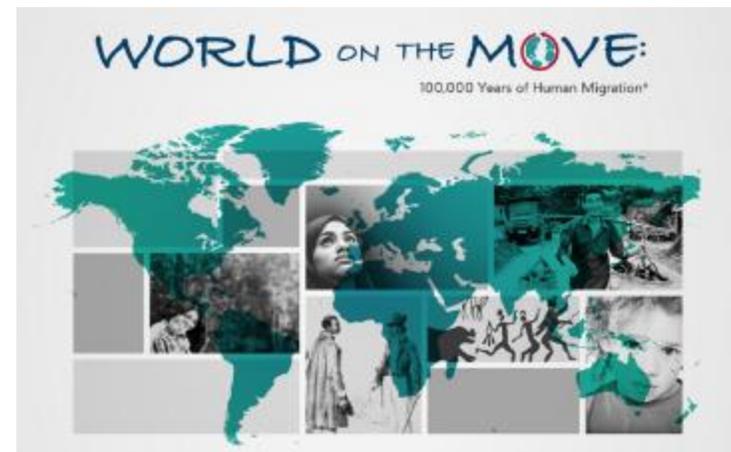
 AMERICAN ANTHROPOLOGICAL ASSOCIATION
Advancing Knowledge, Solving Human Problems



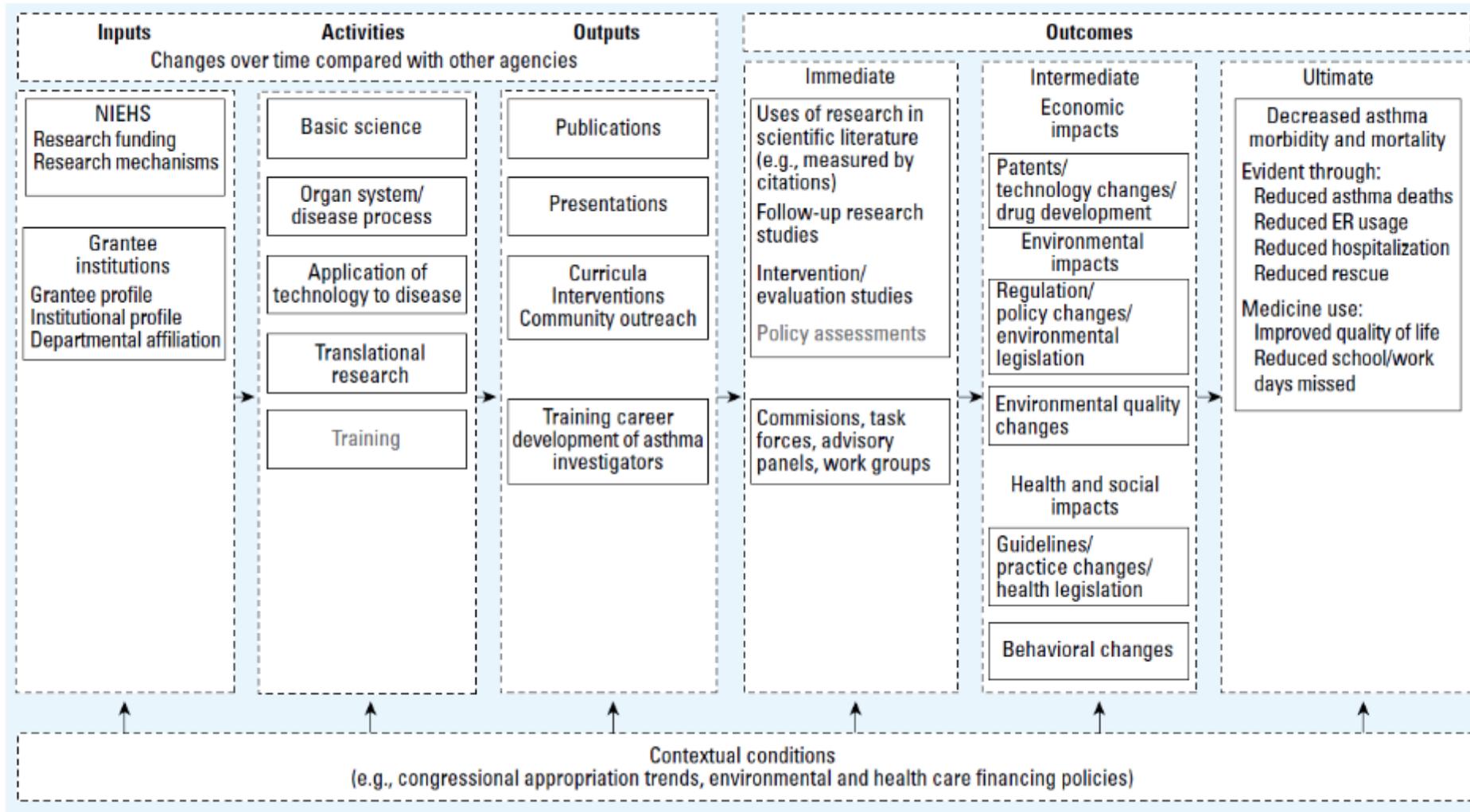
BEYOND BIBLIOMETRICS

Reservoir of knowledge, the knowledge cycle, pathways to practical payoff

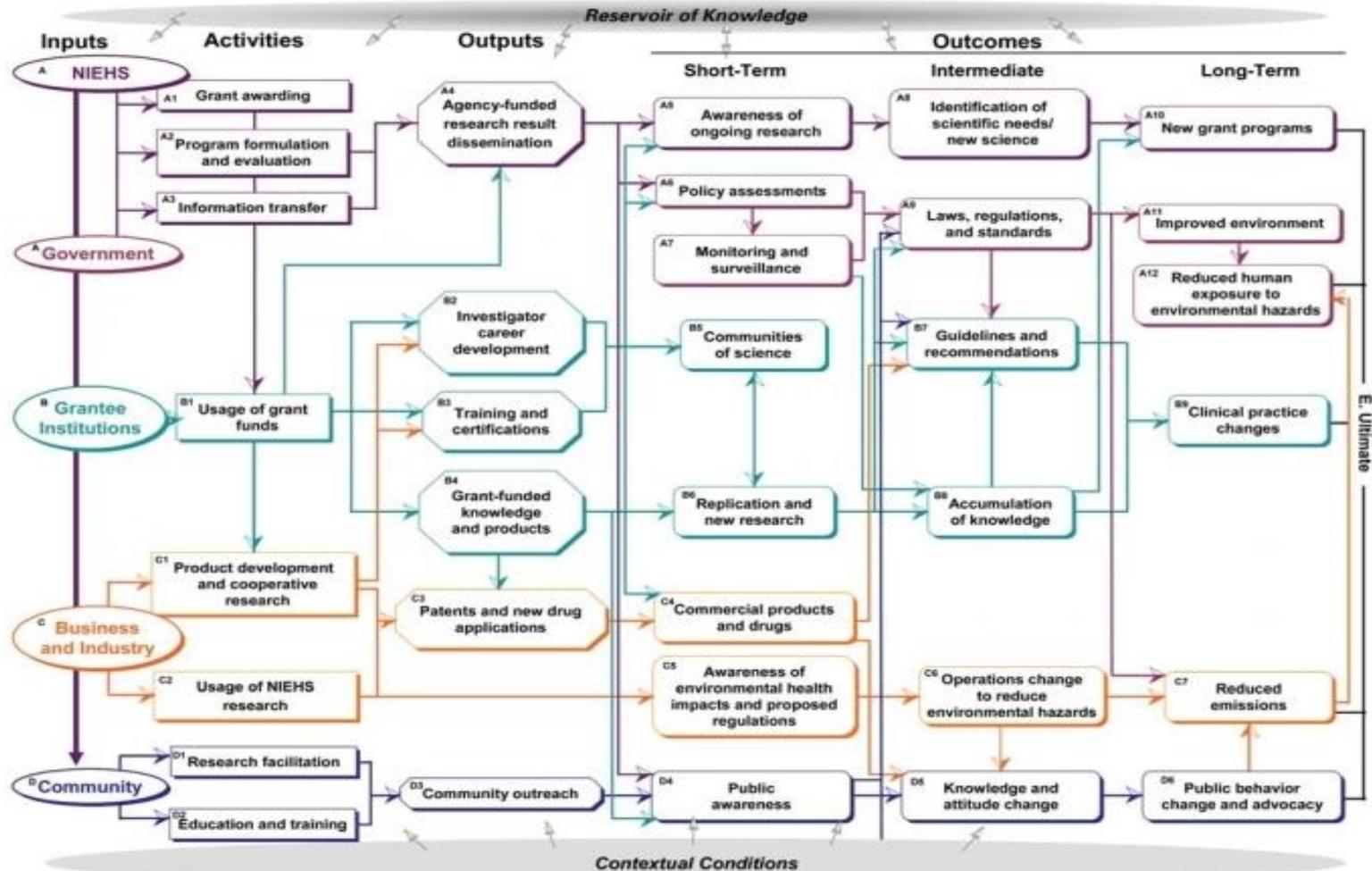
- **Immediate Outcomes**
 - Further research
 - Policy
 - Interventions
 - Products / technologies / processes / methods
 - Clinical guidelines / standards
 - Regulations
- **Intermediate Outcomes**
 - User change
 - Practice change
 - Technology change
 - Economic change
 - Environmental change
 - Institutional change
- **Ultimate Outcomes**
 - Health gains
 - Economic gains
 - Social impacts
 - Enhanced family and community welfare
 - Provision of basic human needs
 - Social welfare gain
 - Improvements in environmental quality and sustainability



FROM BENCH TO BEDSIDE – THE SOCIAL SCIENCE EQUIVALENT?



LINKING RESEARCH WITH OUTCOMES



A network diagram with red and black nodes connected by lines, set against a light red background.

The Impact of Social Sciences and Humanities on Society

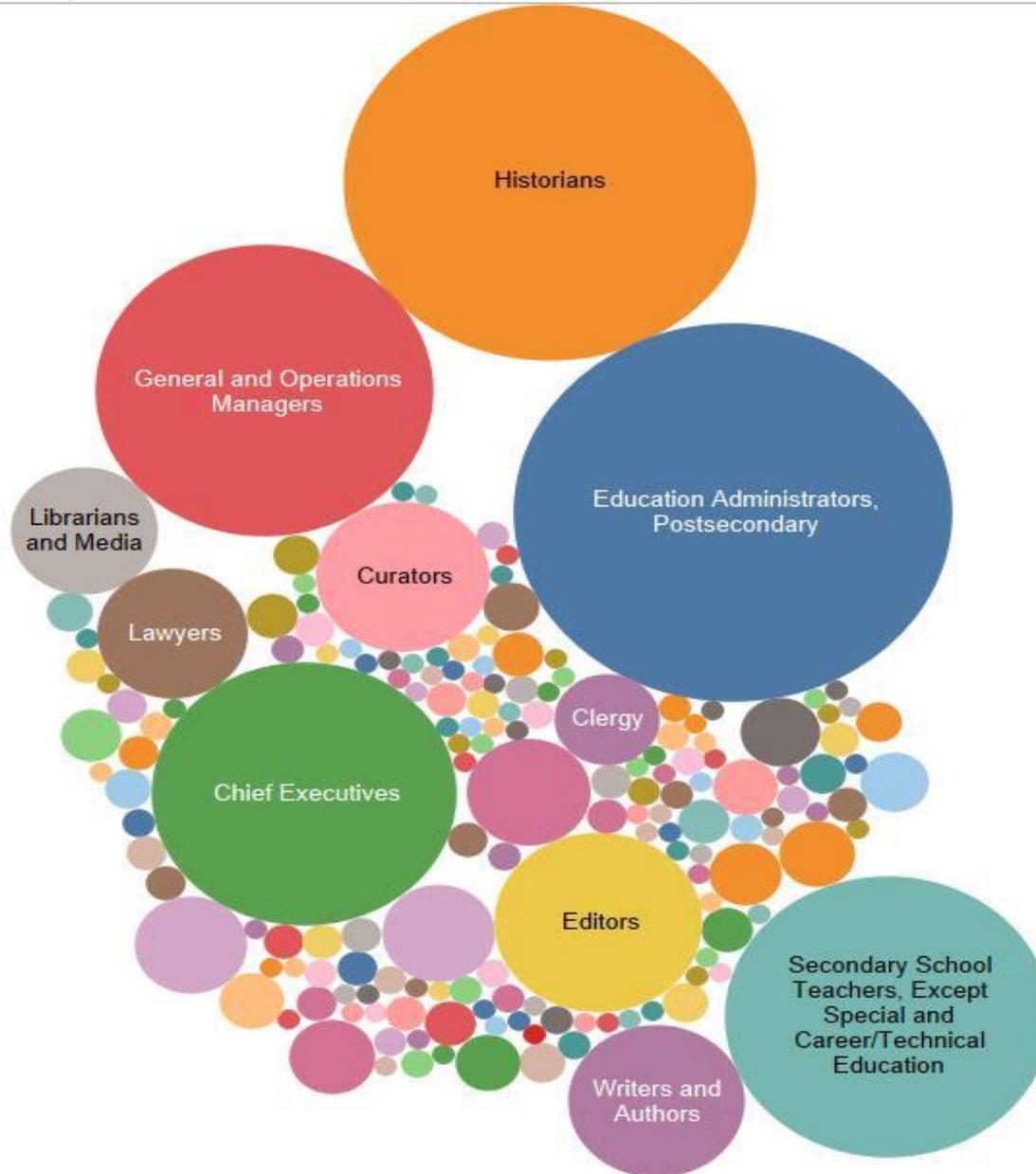
17-18 October 2019, Washington DC

Rasmuson Theater, 9.15-11am

James Grossman

*President of the National Humanities Alliance &
Executive Director of the American Historical Association*

Careers Beyond the Professoriate, Classified by Dept. of Labor Occupational Codes



Careers beyond postsecondary teaching, classified by the U.S. Dept. of Labor's SOC Codes. Hover over a bubble to see full SOC title and number of historians employed in that category.

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Vivian Tseng

Senior Vice President of the William T. Grant Foundation

Studying the Use of Research in Policy & Practice

Vivian Tseng

@VivianT88

@wtgrantfdn

to inform policy and practice
Supporting Research ^
to Improve the Lives of Young People

- \$20M in grants
- 55 studies
 - Half in education
 - Half in child welfare, health, mental health

Rigorous Scientific Inquiry

- Early research
- Theory
 - Explanatory frameworks
 - Testable propositions
- Empirical Rigor
 - Research design
 - Methods
 - Measures

Improve
Outcomes

Implement
What Works

Identify
What Works

Research





Research

local
data

Politics

Funding

values

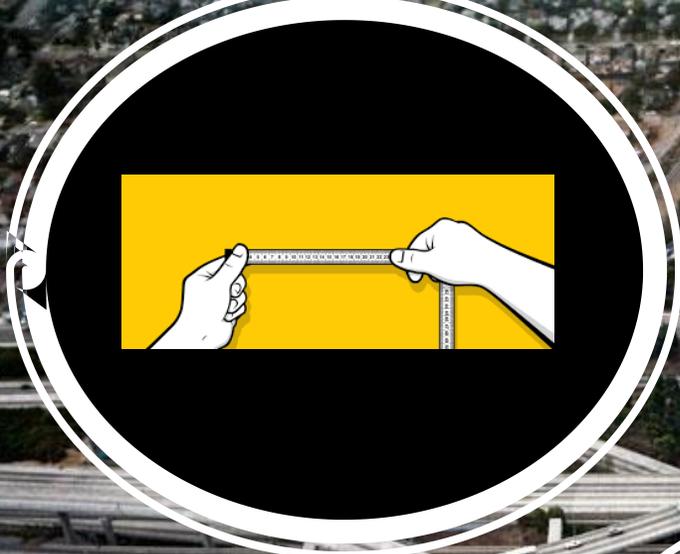
Policy

Implementation
Capacity

*Professional
judgment*

Community
Input

Outcomes



Research Agenda on Research Use

- 1) Strategies to improve use of research
- 2) Strategies to improve production of useful research
- 3) How and under what conditions using research improves outcomes

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Kenneth Prewitt

*President of the American Academy of Political and Social Science &
Carnegie Professor of Public Affairs, Columbia University*



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David Budtz Pedersen

Director of the Humanomics Research Centre, Denmark



@HumanomicsMap

Time for Universities' 'Fourth Mission'

David Budtz Pedersen PhD
Professor of Impact Studies & Science Communication
Aalborg University Copenhagen

17 October 2019

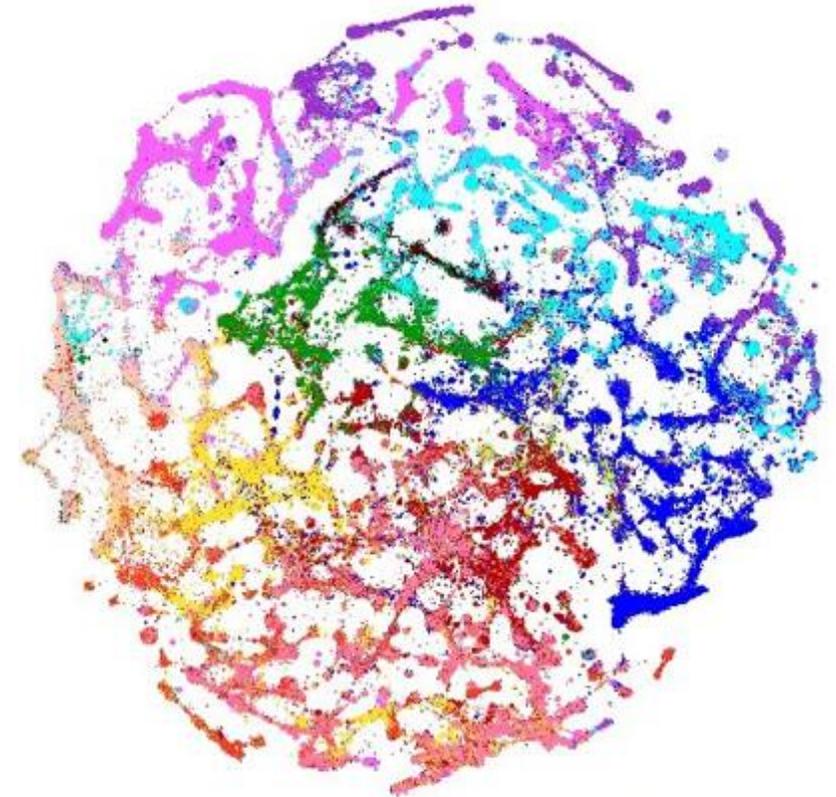
National Museum of The American Indian Washington DC



AALBORG UNIVERSITET

Humanomics Research Centre

- ❑ Meta-research unit focused on studying the interdisciplinary and societal impact of research.
- ❑ 15 researchers, grants: Velux Foundation, Danish Council for Independent Research, European Commission, Danish Ministry of Science etc.
- ❑ Running projects “Mapping the Public Value of Humanities”, “Responsible Impact”, “Open Science Research Analytics” & H2020 “ACCOMPLISSH”
- ❑ Chair of 2nd AESIS Conf Impact of SSHA Copenhagen





Cross-Cutting Activity on Science Communication

Kick-off meeting, 2 October 2019, Brussels, BE



VELUX FONDEN



cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY



**DET FRIE
FORSKNINGSRÅD**
DANISH COUNCIL
FOR INDEPENDENT
RESEARCH

CARLSBERG FOUNDATION



Innovation Fund Denmark
RESEARCH, TECHNOLOGY & GROWTH



Ministry of Higher Education
and Science – Denmark



Productive interactions:
societal impact of
academic research
in the knowledge society

LERU position paper
March 2017

**LE
RU** PUSHING
THE FRONTIERS
OF INNOVATIVE
RESEARCH

- University of Amsterdam • Universitat de Barcelona • University of Cambridge • University of Copenhagen
- Trinity College Dublin • University of Edinburgh • University of Freiburg • Université de Genève
- Universität Heidelberg • University of Helsinki • Universitat de Lleida • KU Leuven
- Imperial College London • University College London • Lund University • University of Milan
- Ludwig-Maximilians-Universität München • University of Oxford • Pierre & Marie Curie University
- Université Paris-Sud • University of Strasbourg • Utrecht University • University of Zurich

IMPACT
Redskaber og
metoder til måling
af forskningens
gennemslagskraft

David Budtz Pedersen
Aalborg Universitet København

**DET FRIE
FORSKNINGSRÅD
DANISH COUNCIL
FOR INDEPENDENT
RESEARCH**

**Science Europe
Position Statement**

One New Vision for More Meaningful
Research Impact Assessment
July 2017

**SCIENCE
EUROPE**
The High Ambition of Science

European
Commission

LAB – FAB – APP

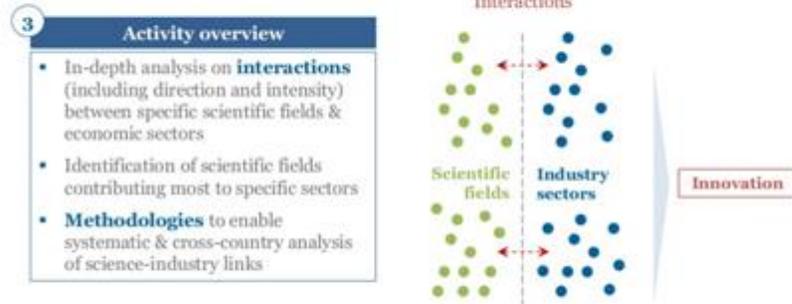
Investing in the European
future we want

Report of the independent High Level Group
on maximising the impact of
EU Research & Innovation Programmes

Research and
Innovation

A hot topic in SSHA

Assessing the contributions of specific scientific disciplines to industrial innovation



Objectives

- Provide **cross-country evidence** on science-industry linkages, including hiring patterns of graduates from different disciplines by different industries
- Discuss **methodologies** for best conducting such assessments



R-QUEST

Center for Research Quality and Policy Impact Studies

HOME	RESEARCH	PEOPLE & ORGANISATIONS	PUBLICATIONS	EVENTS	NEWS	CONTACT
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RESEARCH QUALITY AND POLICY IMPACT

Quality in research is a highly prioritized, but also a much debated issue in research policy. The Centre for Research Quality and Policy Impact Studies (R-QUEST) constitutes an 8-year commitment to explore the nature and mechanisms of research quality – funded by the RCN FORINNPOL initiative. The centre will address three closely related questions:

fund funding from the European Union 5 Horizon 2020 research programme under grant agreement No 101017717

UiO: University of Oslo For employees Norwegian website Search

OSIRIS - Oslo Institute for Research on the Impact of Science

A part of TIK Centre for Technology, Innovation and Culture at Faculty of Social Sciences

ACCOMPLISSH Accelerate CO-creation by setting up a Multi-actor Platform for Impact from Social Sciences and Humanities

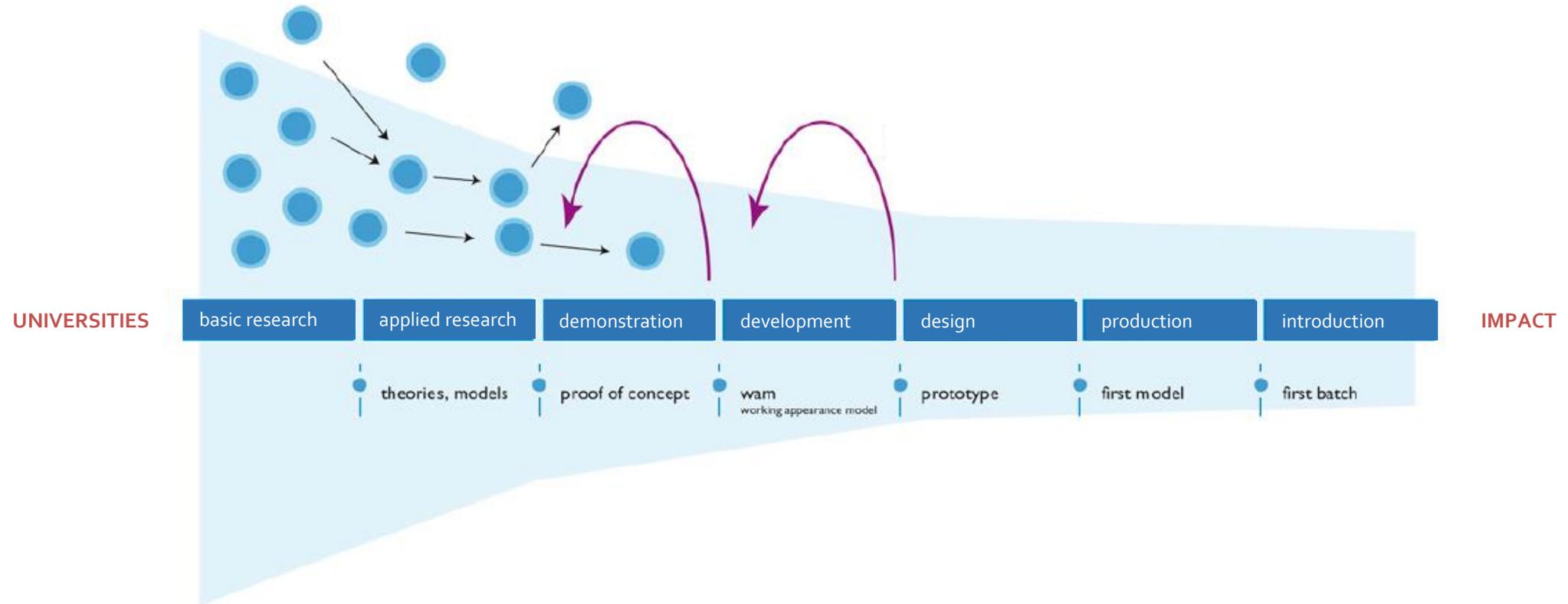
Partners

Participant No.*	Participant organisation name	Country
1	University of Groningen	NL
2	University of Glasgow	UK
3	University of Copenhagen	DK
4	Delmia University	SE
5	Newcastle University	UK
6	University of Zagreb	HR
7	University of Tartu	EE
8	Sapienza University of Rome	IT
9	University of Göttingen	DE
10	University of Dillenburg	NL
11	University of Ghent	BE
12	University of Barcelona	ES
13	Salford University	UK
14	University of Coimbra	PT

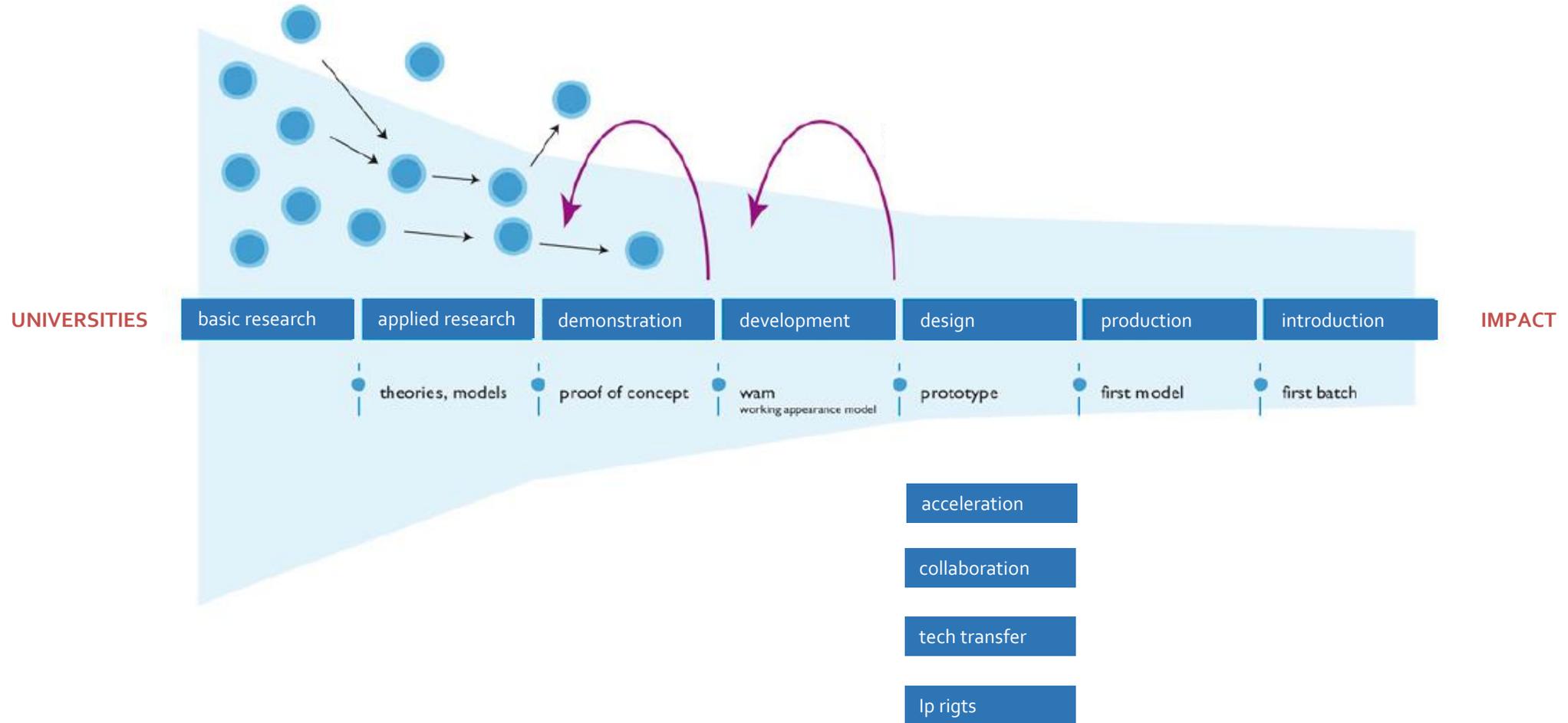
A brief history of the impact pipeline

60 years of science policy

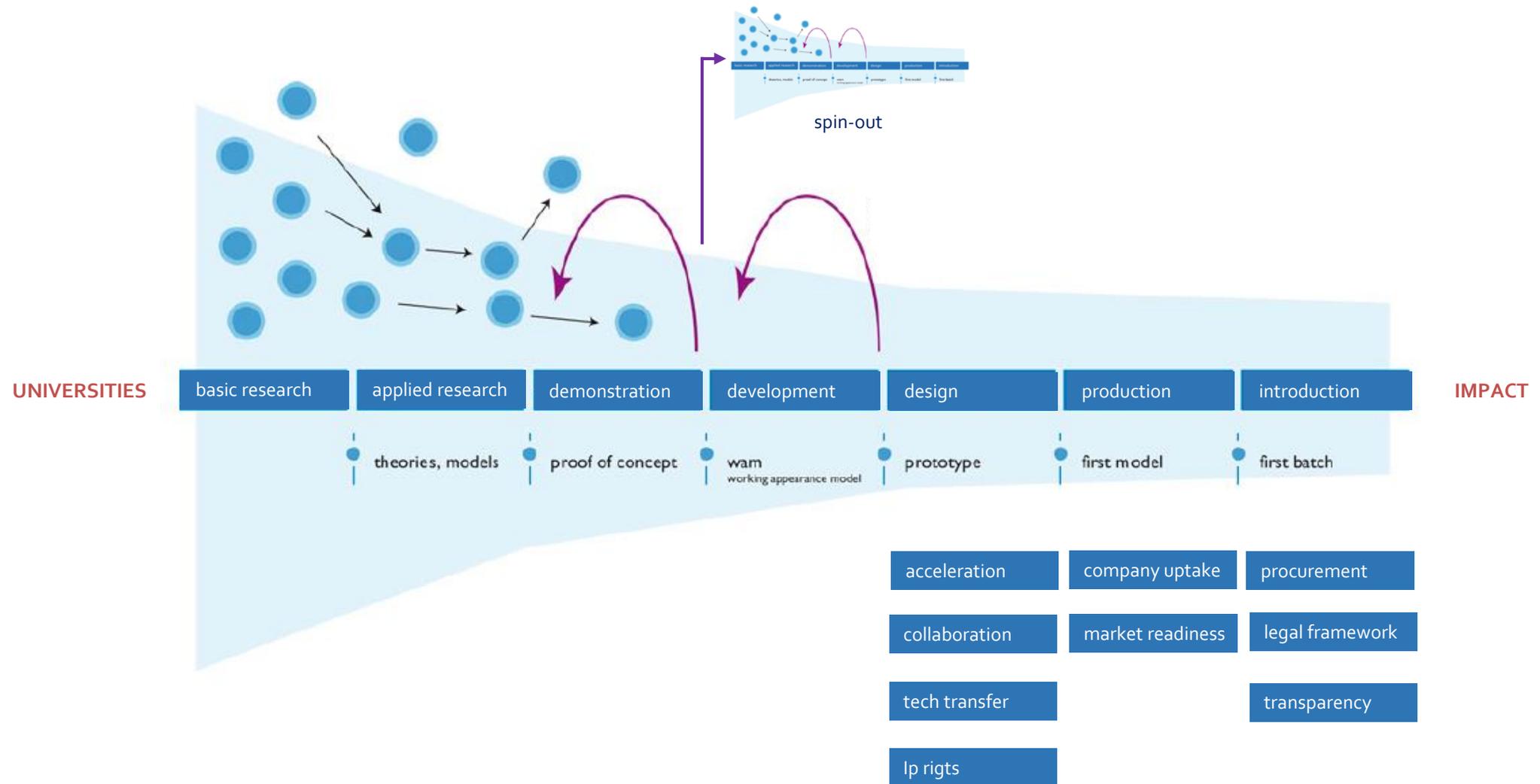
THE LINEAR FALLACY



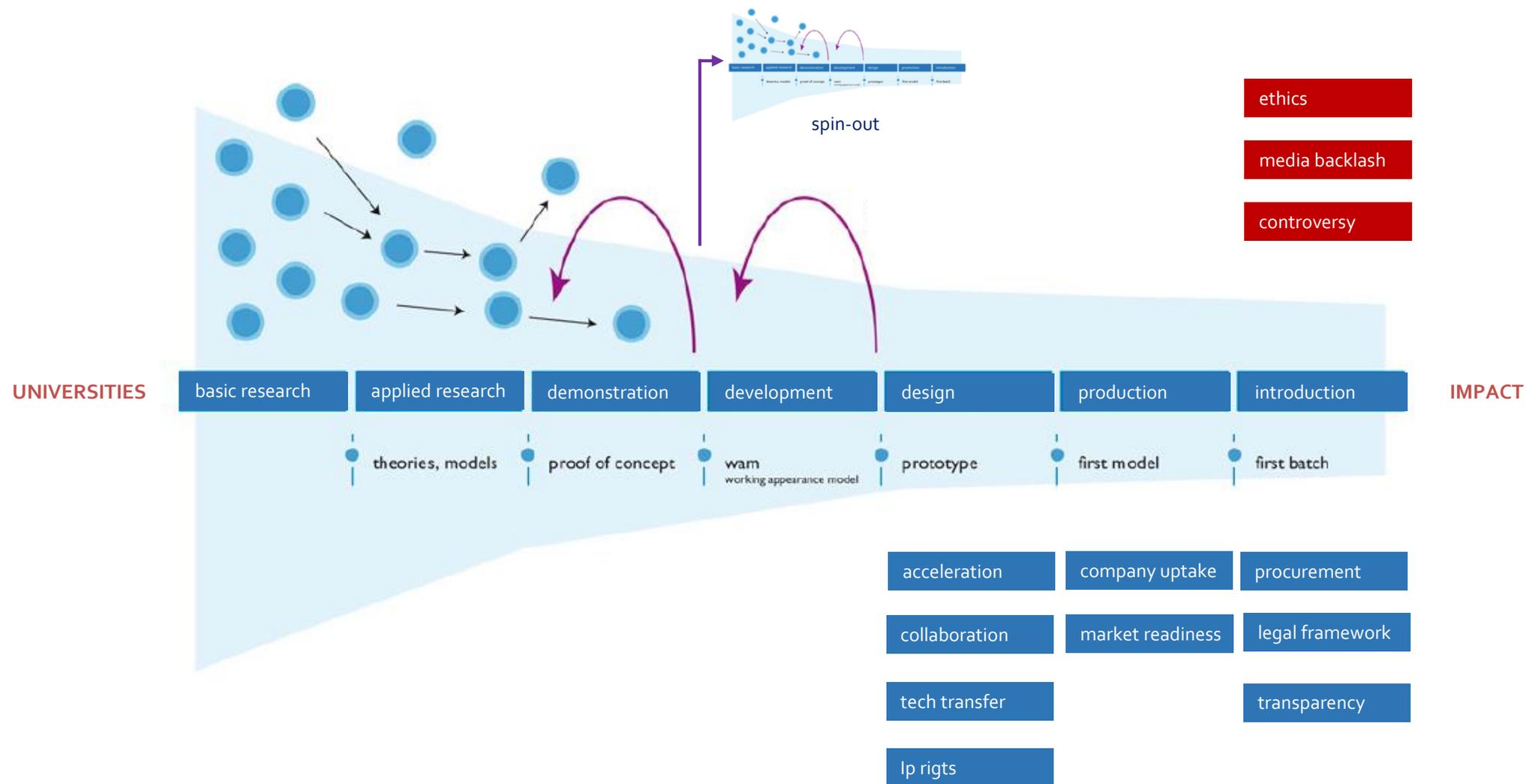
THE LINEAR FALLACY



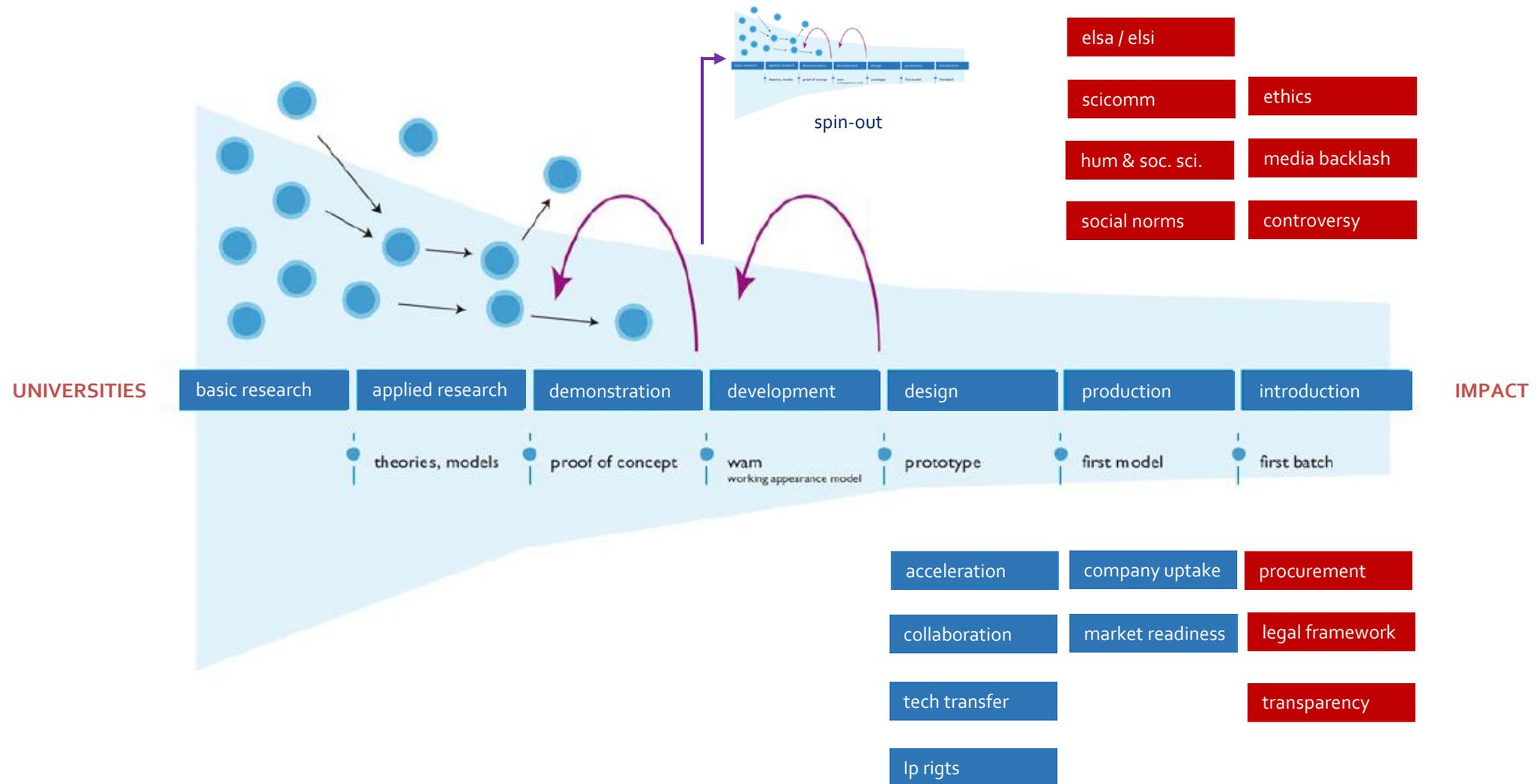
THE LINEAR FALLACY



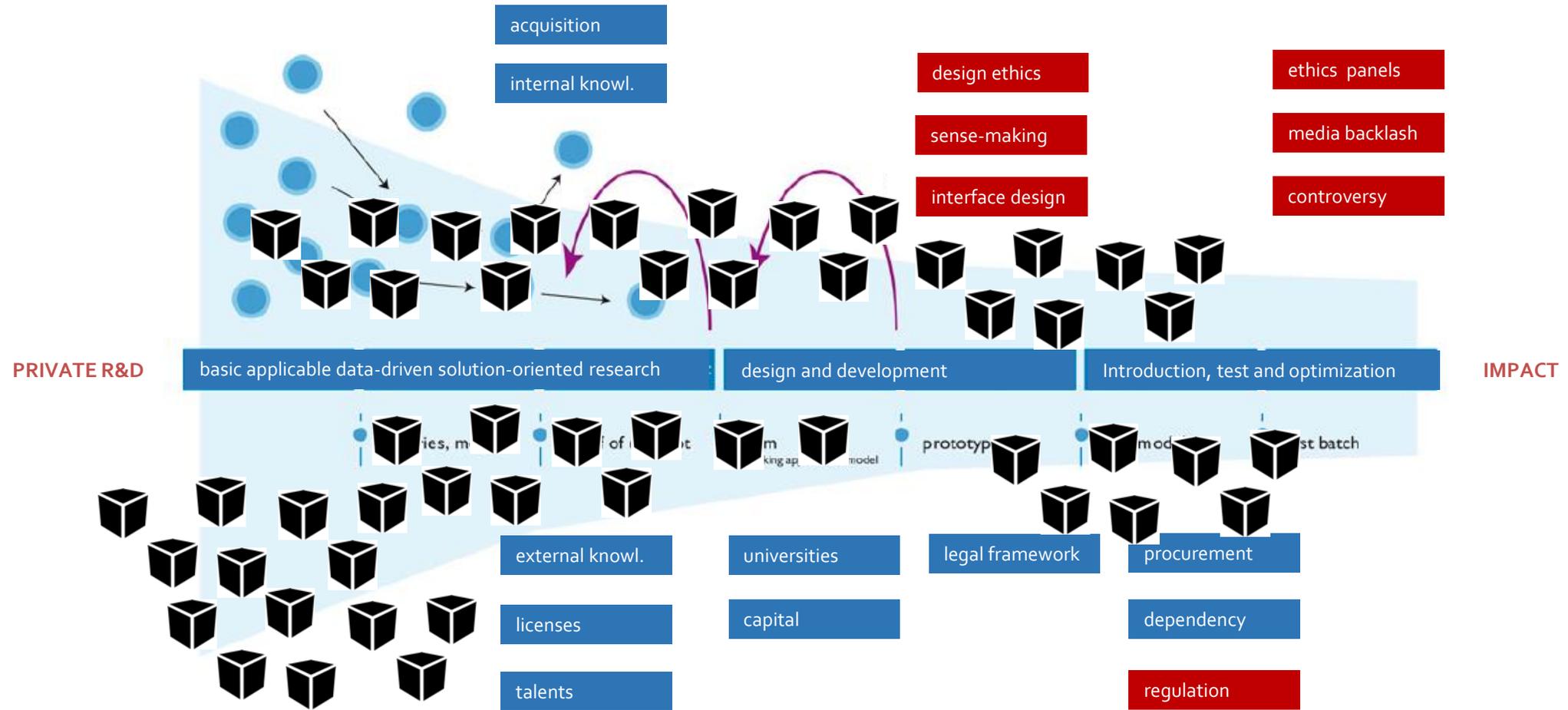
SYSTEM IMMUNE RESPONSE



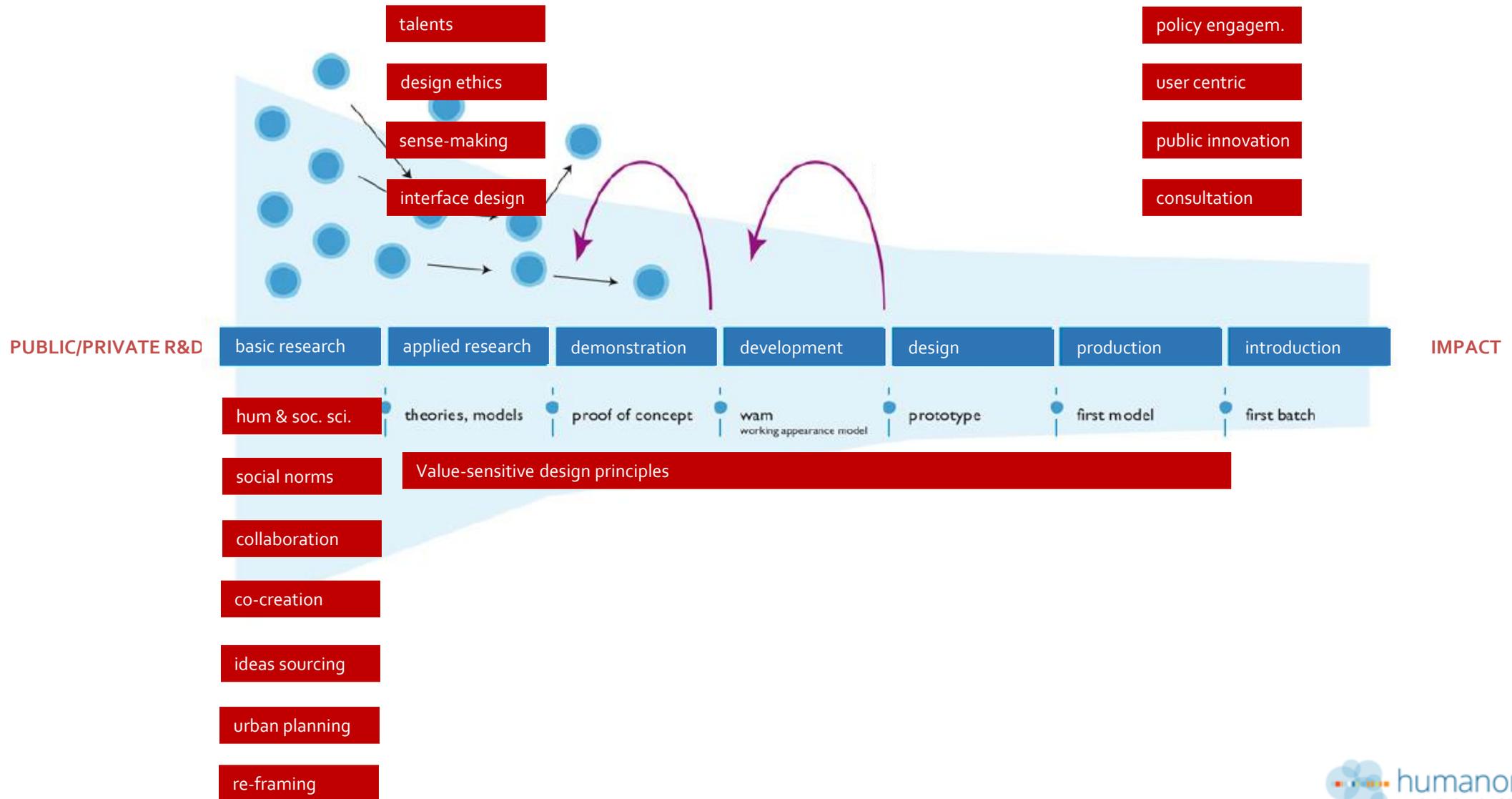
SYSTEM IMMUNE RESPONSE



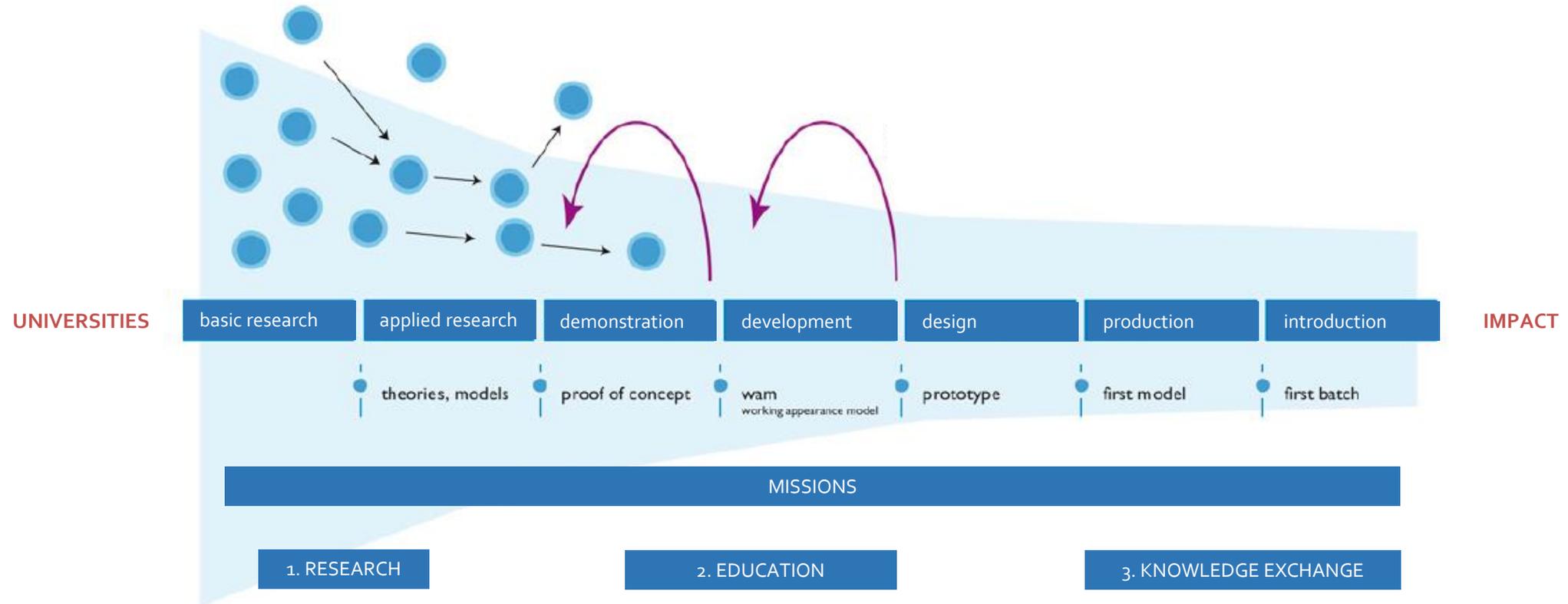
SILICON VALLEY "AI" POWER DYNAMICS



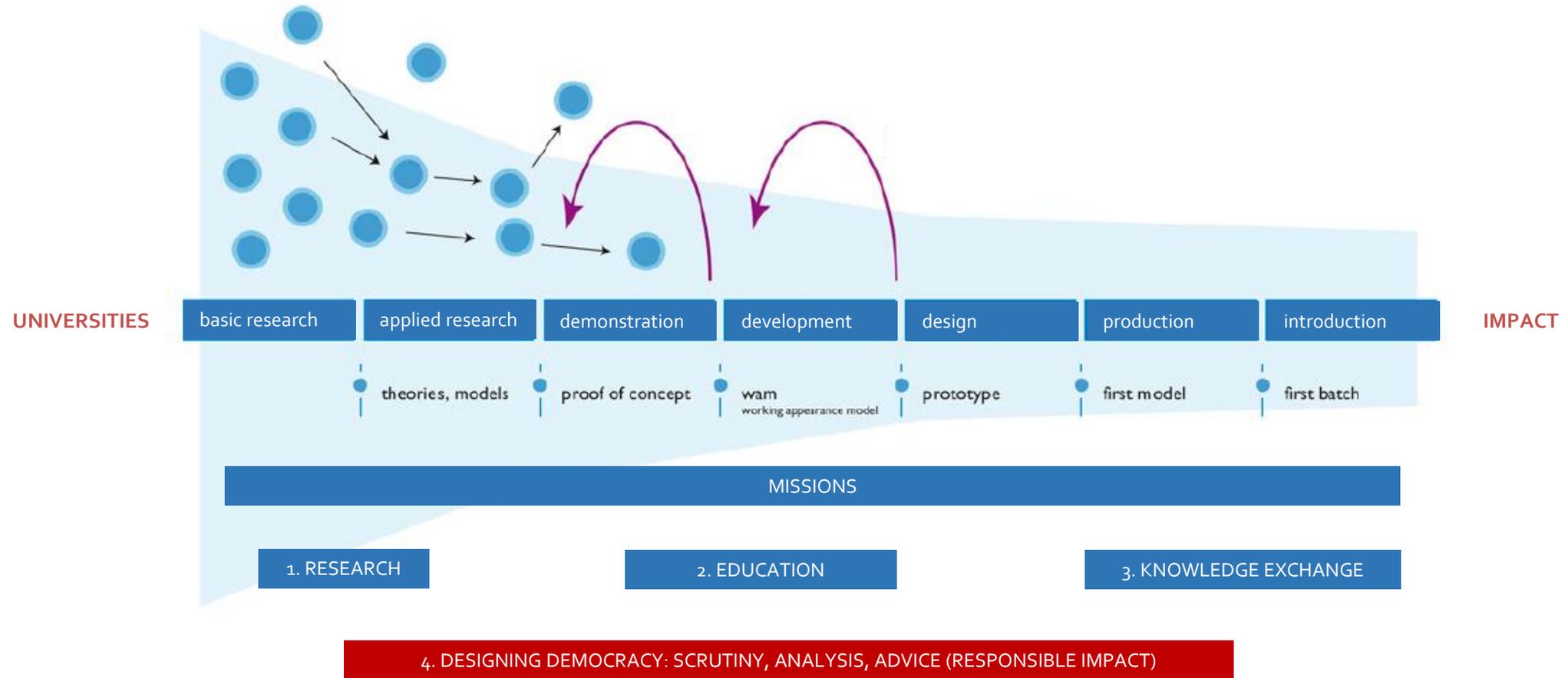
HUMAN-CENTERED IMPACT



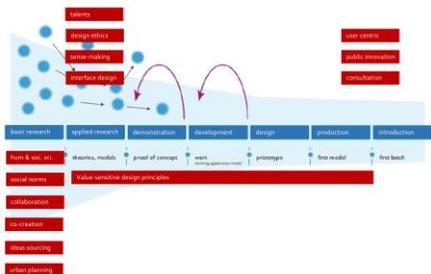
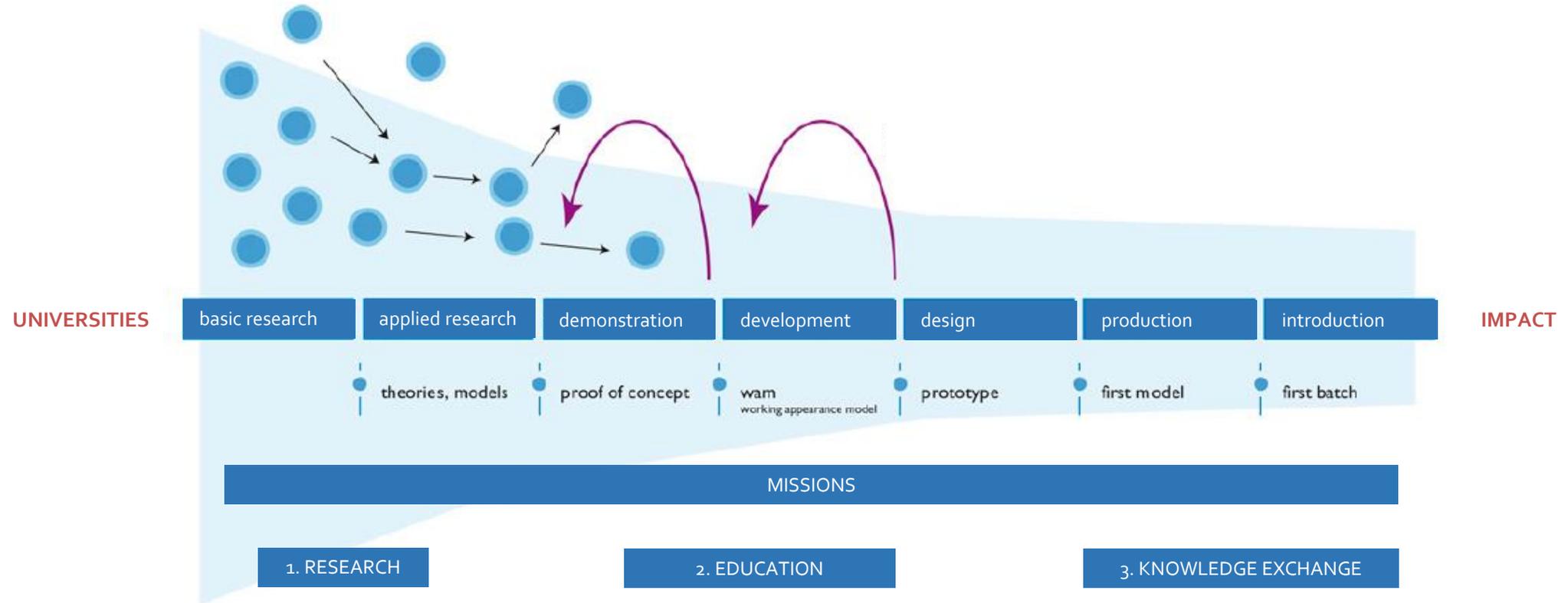
UNIVERSITIES' FOURTH MISSION



UNIVERSITIES' FOURTH MISSION



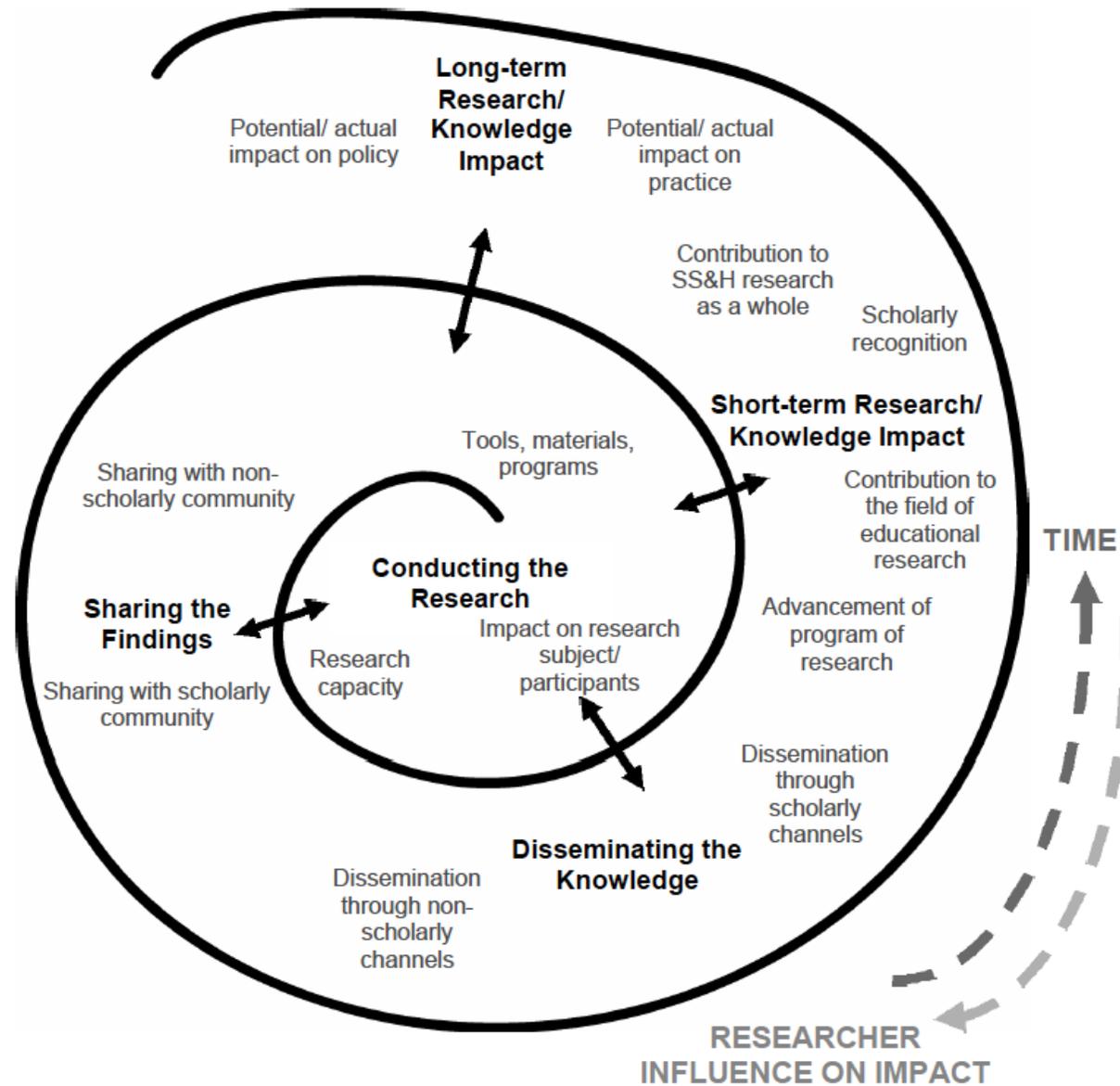
UNIVERSITIES' FOURTH MISSION

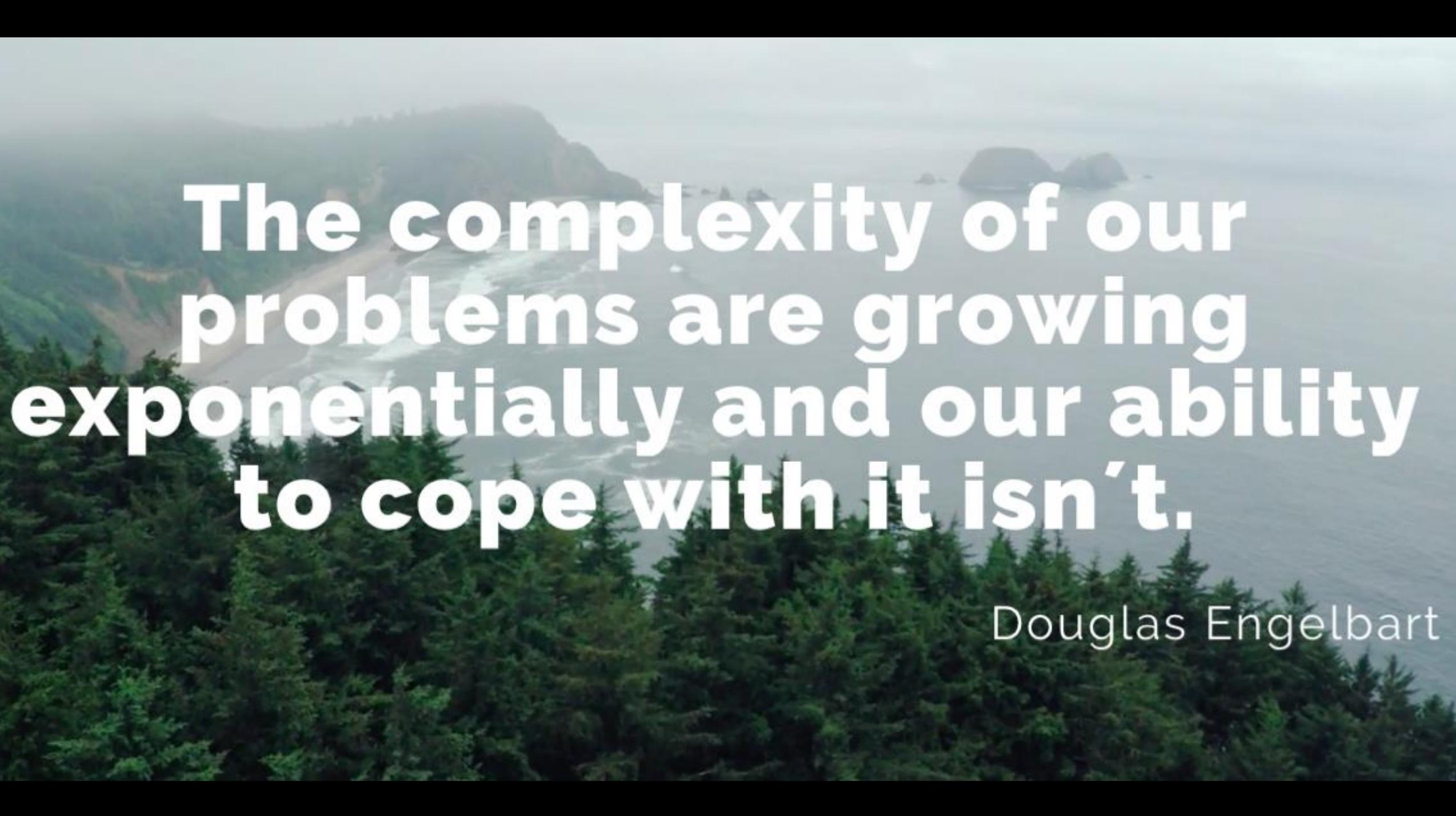


4. DESIGNING DEMOCRACY: SCRUTINY, ANALYSIS, ADVICE (RESPONSIBLE IMPACT)



Figure 1
Conceptual Framework of Research Impact in the Field of Education





**The complexity of our
problems are growing
exponentially and our ability
to cope with it isn't.**

Douglas Engelbart





What do we need for the future?

Intelligent technologies necessitates new competences
– such as value-sensitive design, critical thinking,
sense-making and joint problem solving

the Liberal Arts
– revitalized

Thank you for the attention

David Budtz Pedersen: davidp@hum.aau.dk

Twitter: @HumanomicsMap

Website: <http://mapping-humanities.dk>

Supported by

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The Impact of Social Sciences and Humanities on Society

17-18 October 2019, Washington DC

Plenary discussion: Strategies and policies for impact

Panel discussion led by Arthur Lupia

*Head of the Directorate for Social, Behavioural, and Economic Sciences,
National Science Foundation*

Panel members:

Edward Liebow

James Grossman

Vivian Tseng

Kenneth Prewitt

David Budtz Pedersen



The Impact of Social Sciences and Humanities on Society

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Up Next

11am	Group picture and coffee break	
11.30am-12.45pm	Synergy with governmental institutions	Room 4018+4019
	Stakeholder co-creation	Patrons Lounge
	Supporting SSH impact through foundations	Room 4025
	Interdisciplinary research	Rasmuson Theater