

11.15 - 12.30

Regional & Municipal Level

Caroline Nevejan (chair) – Science officer City of Amsterdam

Sam Cole – Head of REF futures at Warwick University

Krzysztof Gluc – Director School of Public Administration, Krakow

University of Economics

Impact of Science

4-6 November, Krakow

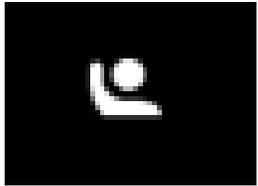
Regional & Municipal Level



Nowa Huta room

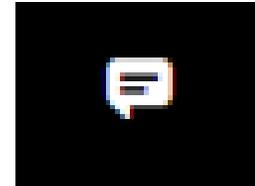
Impact of Science

4-6 November, Krakow



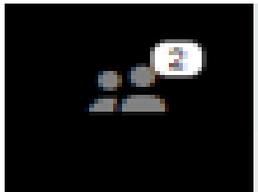
Broadcast permission:

- Turn on your microphone and/or camera
- Participate in the discussion



Conversations:

- General remarks
- Discussion
- News (links)



Who are the attendees?

- Speakers
- Participants



Q&A:

- (Targeted) questions
- Speakers answer the questions live



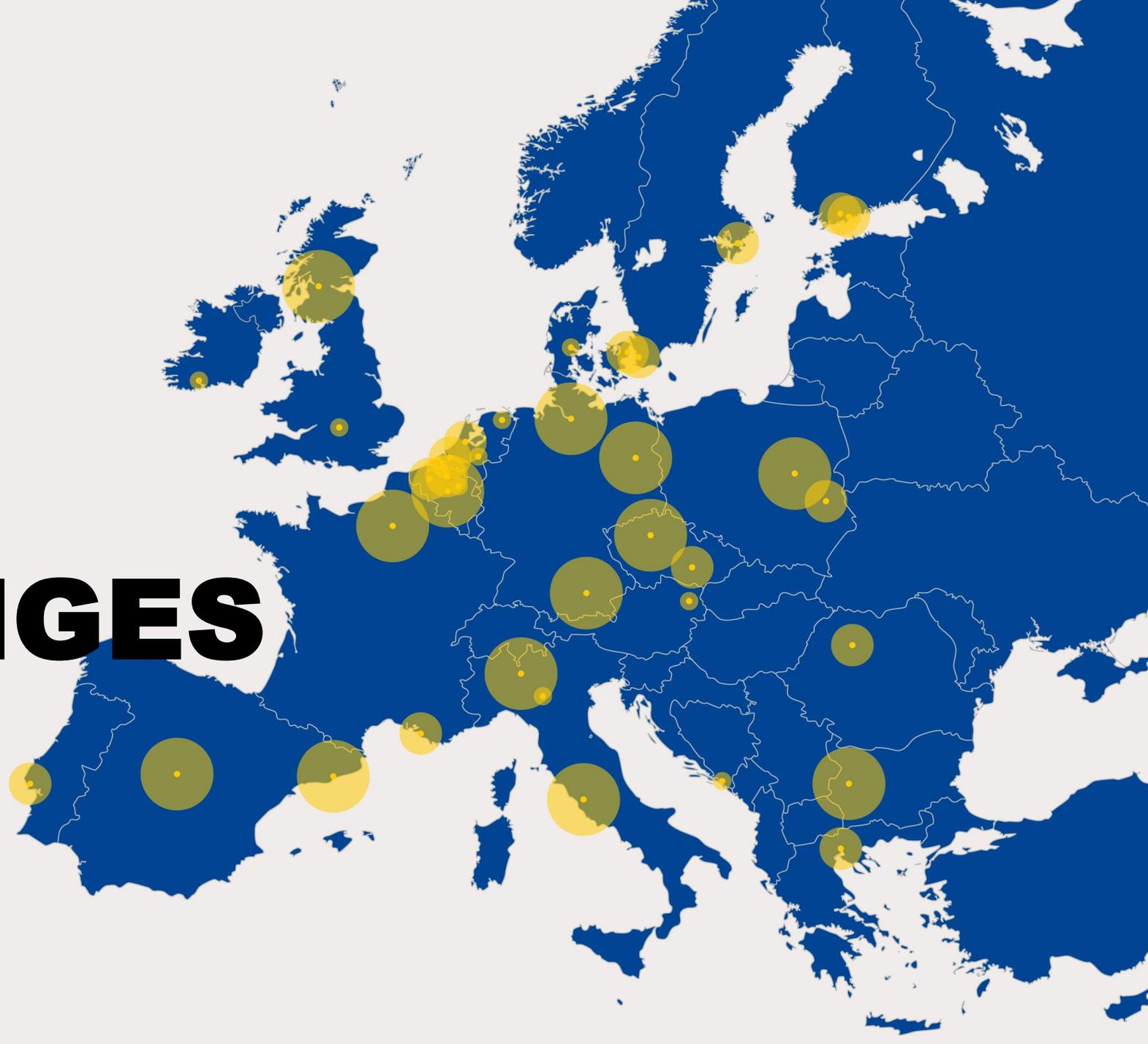
Lay out view:

Full screen, Tiled, Thumbnail



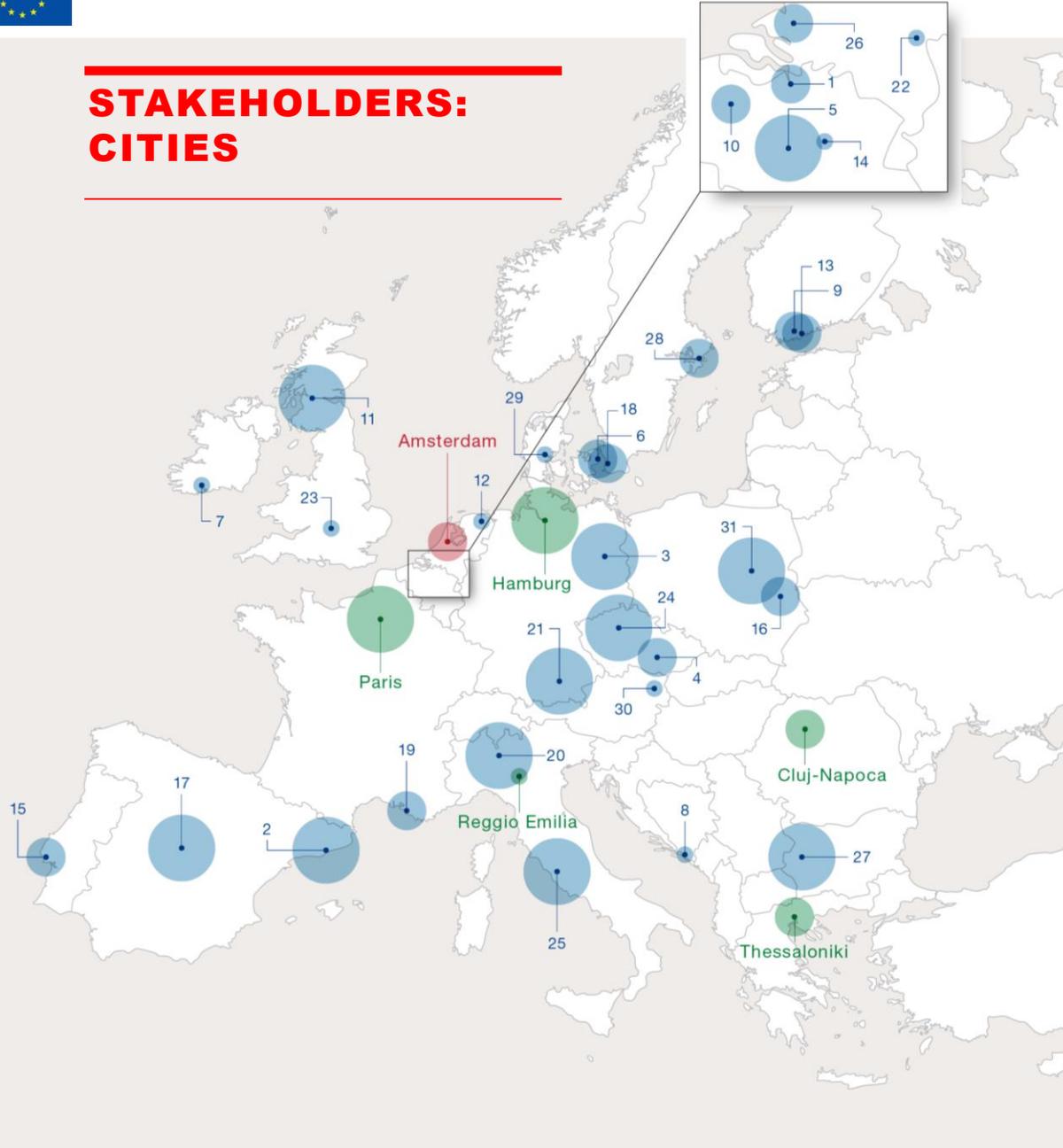
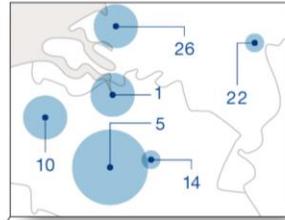
CITY SCIENCE FOR URBAN CHALLENGES

Pilot assessment and future potential of
the City Science Initiative
2019 – 2020

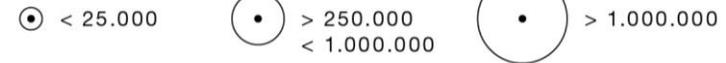




STAKEHOLDERS: CITIES



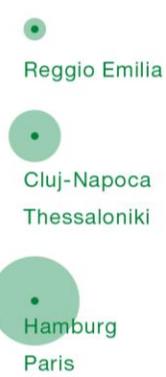
CITY SIZE BY POPULATION



INITIATING CITY



LEADING CITIES



PARTICIPATING CITIES

- | | | | |
|--------------|--------------|--------------|-------------|
| 7 Cork | 1 Antwerp | 26 Rotterdam | 2 Barcelona |
| 8 Dubrovnik | 4 Brno | 28 Stockholm | 3 Berlin |
| 12 Groningen | 6 Copenhagen | | 5 Brussels |
| 14 Leuven | 9 Espoo | | 11 Glasgow |
| 22 Nijmegen | 10 Gent | | 17 Madrid |
| 23 Oxford | 13 Helsinki | | 20 Milan |
| 29 Vejle | 15 Lisbon | | 21 Munich |
| 30 Vienna | 16 Lublin | | 24 Prague |
| | 18 Malmö | | 25 Rome |
| | 19 Marseille | | 27 Sofia |
| | | | 31 Warsaw |



STAKEHOLDERS: NETWORK

EUROCITIES

100 Resilient Cities

Covenant of Mayors

European Network of Living
Labs (ENoLL)

European Regions Research
and Innovation Network
(ERRIN)

European Union Knowledge
Network (EUKN)

UN Global Sustainability
Index Institute Foundation
(UNGSII)

ICLEI

International Urban
Cooperation

JPI Urban Europe

ThinkNature

UNICA: Network of
Universities from Capitals of
Europe

URBACT

STAKEHOLDERS: EUROPEAN COMMISSION

JRC

DG Research & Innovation

DG REGIO

DG CLIMA

DG CNECT

DG ENER

DG ENV

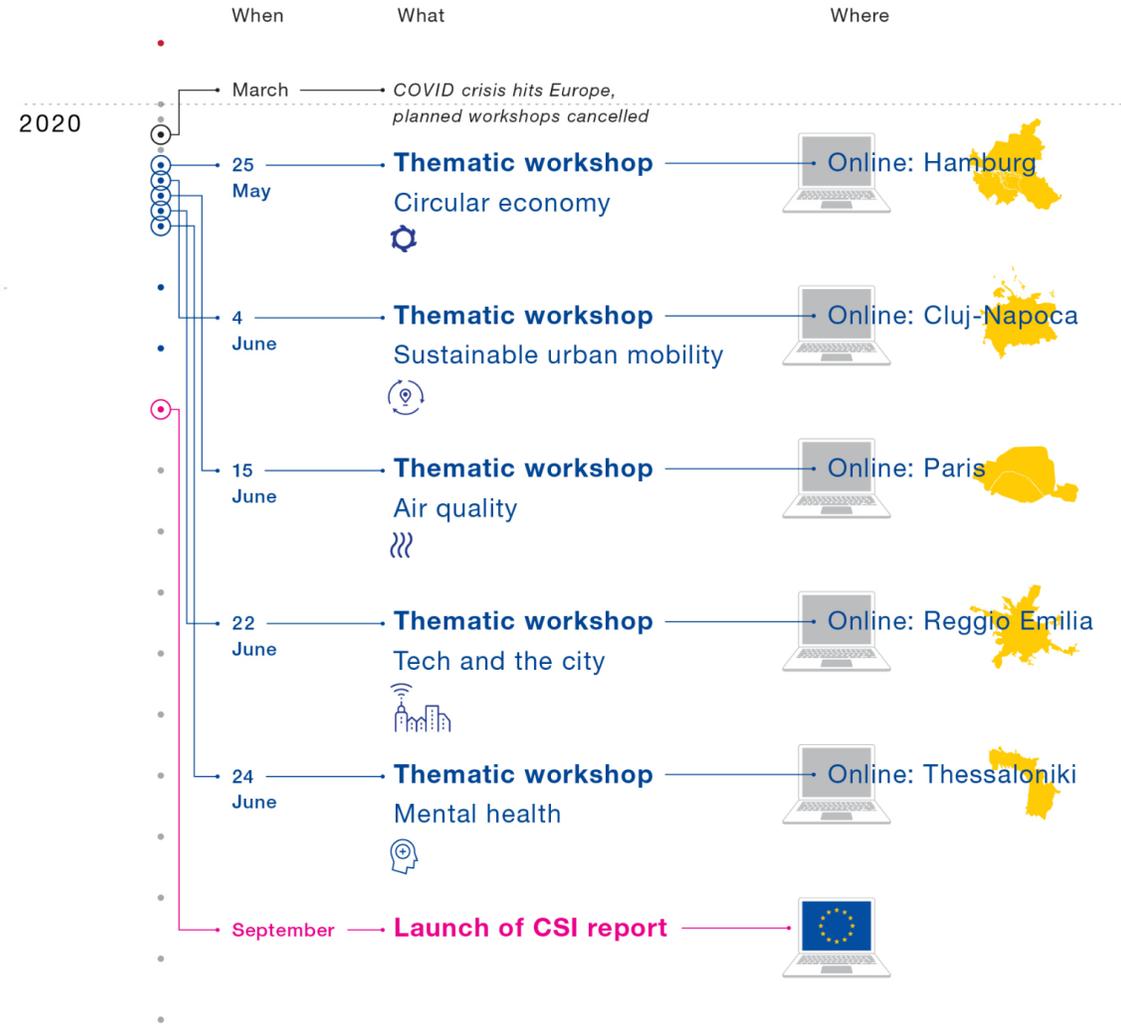
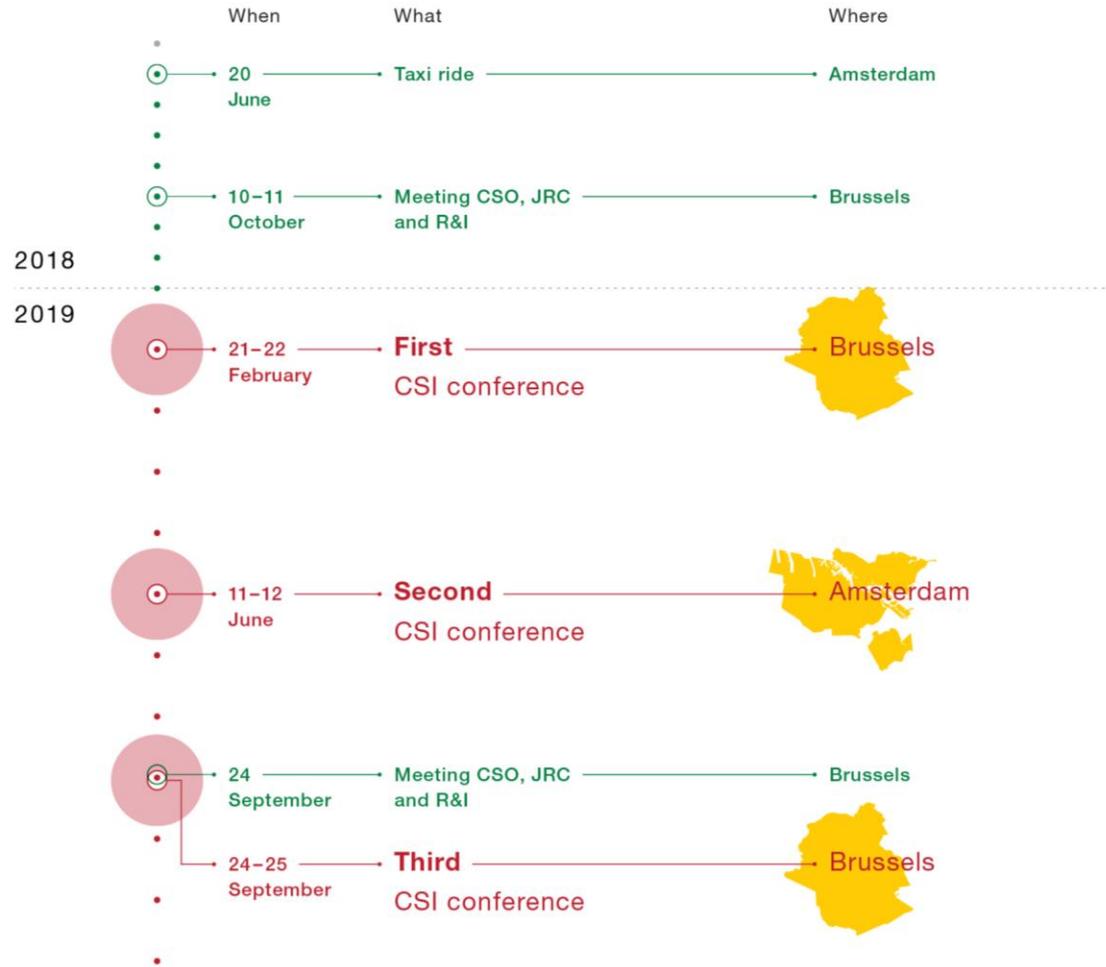
DG GROW

DG MOVE

EASME



CSI PILOT TIMELINE



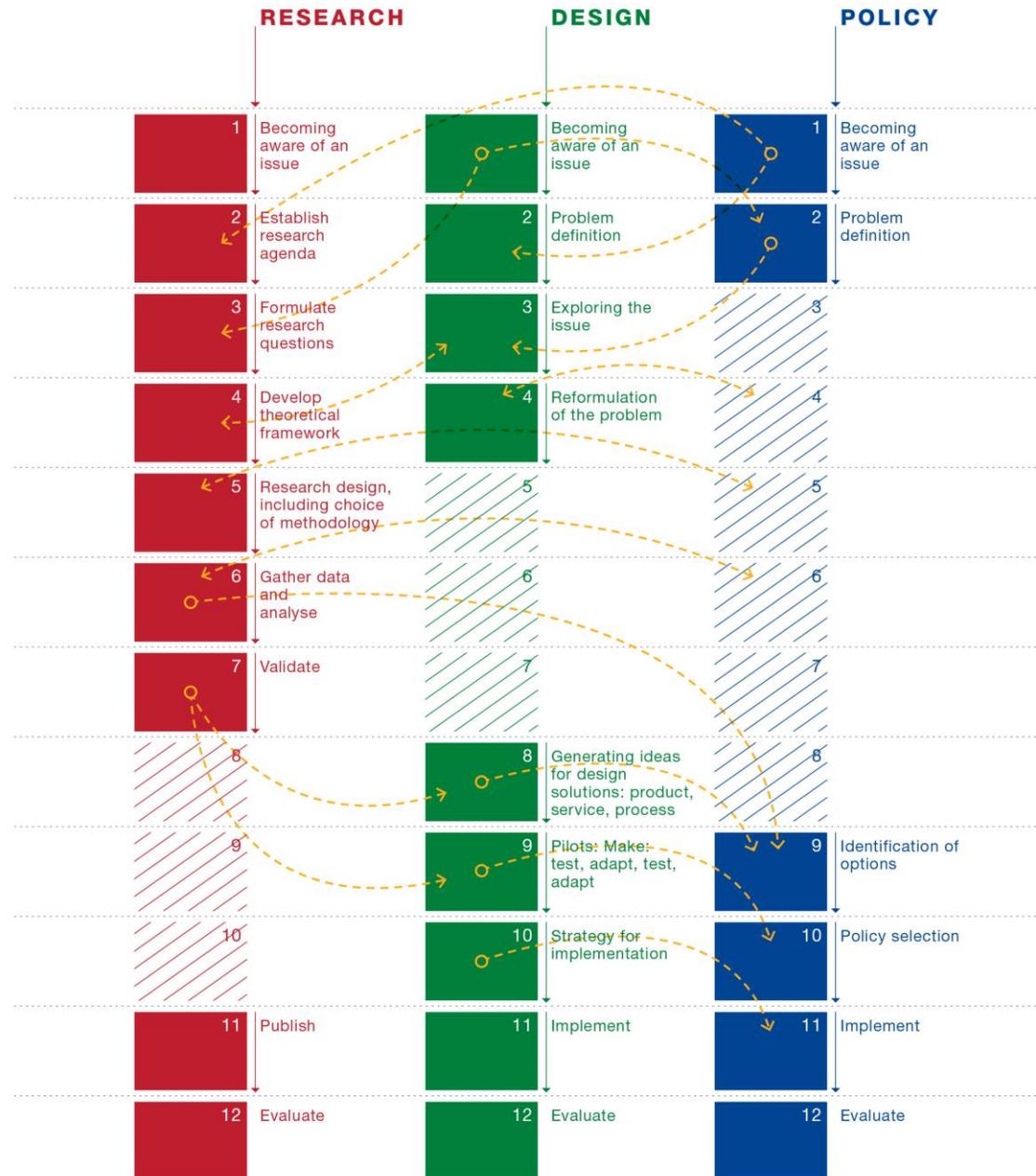


CITY SCIENCE

- Challenge based
- The city as complex system
- Integral nature of challenges
- Different kinds of knowledge for solutions
- Transdisciplinary in research questions
- Design contributing to the science-policy interaction
- Cities acquire data professionally
- Universities develop international reviewed methodologies
- Every step in research process is influenced by complexity of city challenges



CITY SCIENCE DYNAMICS



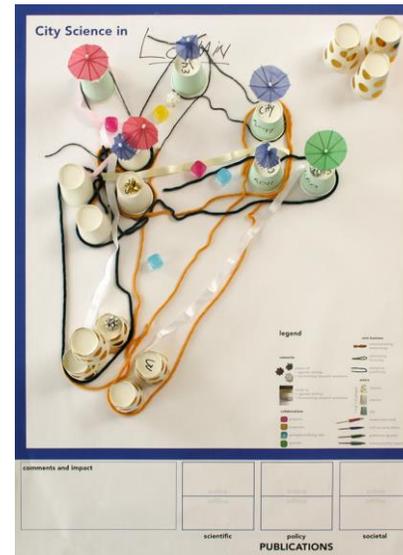
MAPPING CITY SCIENCE PRACTICES



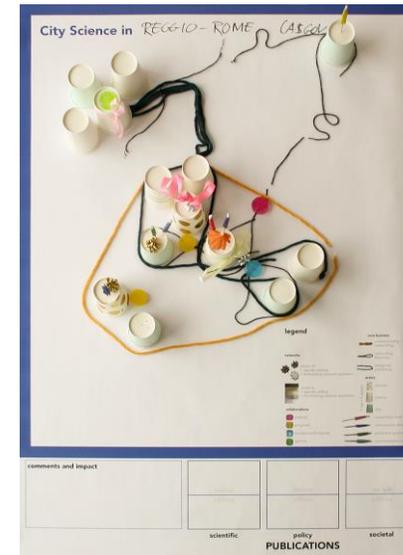
Warsaw



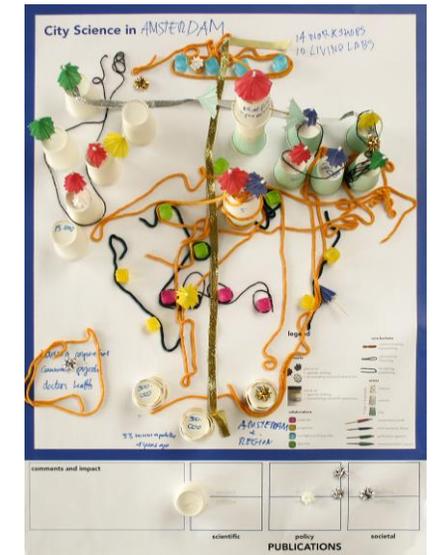
Cluj-Napoca



Lublin



Reggio Emilia



Amsterdam



CITY SCIENCE ISSUES

- Governance and finance of City Science
- Learning and communication between science and policy
- A need for a new research paradigm on City Science
- Need for data exchange
- Agency of city

THEMATIC WORKSHOPS



CIRCULAR ECONOMY
Hamburg



SUSTAINABLE URBAN MOBILITY
Cluj-Napoca



AIR QUALITY
Paris



TECH AND THE CITY
Reggio Emilia



MENTAL HEALTH
Thessaloniki



CSI ASKS TO:

- Improve the relevancy of European research for city challenges
- Give more support in translating the findings of European research into applicable solutions
- Improve the uptake of research on the local level
- Solve the lack of access to data is seriously impacting the possibility to make fact-based policies
- Make stronger supporting instruments to improve cooperation between cities themselves, universities and the Commission



CSI POTENTIAL:

- CSI is a communication environment for EU research results
- CSI is a learning environment for City Science practitioners
- CSI is a sounding board for networks, JRC and EU DG's
- CSI is a catalyst for generating challenge based research questions and designs
- CSI is a bridge to transdisciplinary urban research between different DG's in addressing city challenges
- CSI is a manifestation in cities of European way of life to which evidence based policymaking is core



LETTER FROM MAYORS

Given the societal urgency to find innovative approaches and solutions to the challenges European citizens will face in the coming years, we believe that there is a need to continue the City Science Initiative as a learning platform for urban research.

We can assure you that our cities stand ready to support the next phase of the CSI.

Marie-Christine
Lemardeley
Deputy Mayor of
Paris

Emil Boc
Mayor of Cluj-
Napoca

Konstantinos
Zervas
Mayor of
Thessaloniki

Luca Vecchi
Mayor of Reggio
Emilia

Almut Möller
State Secretary
of Hamburg

Femke Halsema
Mayor of
Amsterdam



Amsterdam	Dubrovnik	Lublin	Prague
Antwerp	Espoo	Madrid	Reggio Emilia
Barcelona	Gent	Malmö	Rome
Berlin	Glasgow	Marseille	Rotterdam
Brno	Groningen	Milan	Sofia
Brussels	Hamburg	Munich	Stockholm
Cluj-Napoca	Helsinki	Nijmegen	Thessaloniki
Copenhagen	Leuven	Oxford	Vejle
Cork	Lisbon	Paris	Vienna
			Warsaw

Thank you

For more information:

Roel Raterink

r.raterink@amsterdam.nl

Report download:

<https://openresearch.amsterdam/nl/page/63027/city-science-for-urban-challenges>



Societal Impact from Research – a UK perspective



WARWICK
THE UNIVERSITY OF WARWICK

Sam Cole – Head of REF Futures (Policy and Delivery)

University of Warwick
Coventry, England

6th November 2020



Contents

- 1. UK research landscape – REF background**
- 2. Defining impact and REF's role in driving impact**
- 3. Challenges and practicalities in developing impact**

Overview of the Research Excellence Framework (REF) – What is it for?

- Assesses UK HEIs' research quality. The exercise first began in 1986, known as the Research Assessment Exercise (RAE) before changing to REF in 2014.
- The outcome of the assessment is then used to:
 - Inform the allocation of quality-related (QR) recurrent research funding. Each year Research England distributes over £1bn to UK HEIs. In 2018/19 Warwick received £35,593,680.
 - Provide accountability for public investment in research and demonstrate evidence of the benefits of this investment.
 - Provide benchmarking information and establish reputational yardsticks, for use within the HE sector and for public information.

UK Research Funding – ‘Dual Support’

Research Councils

Specific research projects and programmes funded by research councils (BBRSC, EPSRC etc.) through open competition.



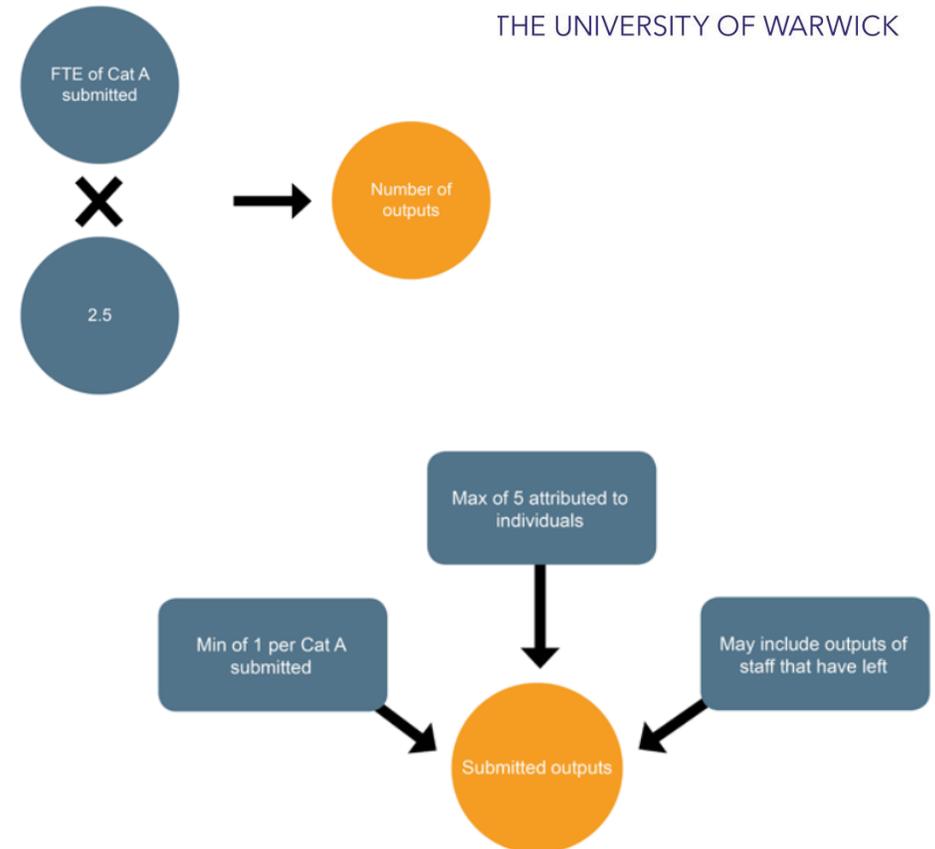
Recurrent research grant (QR)

An annual grant distributed to UK HEIs which is based on research quality, staff volume and relative cost of different disciplines.

The REF is used to determine the quality level and staff volumes in different disciplines.

Components of the REF (what is assessed?)

- **Outputs** – 60% - ‘originality, significance and rigour’
 - 2.5 outputs per FTE of CAT A submitted staff
 - 1-5 outputs per individual staff member (minimum of one each)
- **Impact** – 25% - ‘reach and significance’
 - Assessed through case studies. Number based on FTE of submitted staff
- **Environment** – 15% - ‘vitality and sustainability’
 - Institutional and unit level narratives combined with research income, research income-in-kind and PhD awards.



Category A Eligible Staff

- Academic staff with a contract of 0.2 FTE or greater
- On the payroll on the census date – **31 July 2020**
- Primary employment function is to undertake either “research only” or “teaching and research”
- Substantive connection to the submitting unit
- Meeting the definition of independent researcher

Independent Researchers:

An individual who undertakes self-directed research, rather than carrying out another individual's research programme.

Possible indicators:

- leading or acting as principal investigator or equivalent on an externally funded research project
- holding an independently won, competitively awarded fellowship where research independence is a requirement.
- leading a research group or a substantial or specialised work package.
- Being named as a Co-I on an externally funded research grant/award.
- Having significant input into the design, conduct and interpretation of the research.

Defining Impact and REF's role in driving impact

- Introduced for REF 2014 to protect the HE sector in light of increasing scrutiny of how public money is spent.
- Met significant opposition when initially proposed but is now widely accepted as a useful and accessible account of the significant impact UK research has on the wider world.

Defining Impact and REF's role in driving impact

- Impact, based upon research excellence (applied; user-engaged and basic), is the identifiable and evidenced contribution made by Universities to the economy and society. These benefits are broad and diverse and can be experienced in a myriad of different contexts. They include the diversity of ways in which research-derived knowledge and skills benefit individuals, organisations (public, private and “third sector” and nation states through:
 - Enhancing the economic competitiveness of the United Kingdom and global economic performance;
 - Improving and enhancing the effective delivery of public services and policy development;
 - Improving quality of life; health and wellbeing and creativity.

Examples of Impact – Quantitative/Linear/Diffuse

- **4* 2014 impact case study from Laura Green for Agriculture**

Footrot (FR) causes 90% of lameness in sheep. FR reduces productivity and lowers welfare. Warwick research has led to the development of a novel management strategy: prompt antibiotic treatment (PAT) - sheep treated with antibiotics within three days of becoming lame with FR. This has resulted in a reduction in the overall prevalence of lameness in sheep flocks in England from 10% (2004) to 5% (2011) and 3% (2013).

- **4* 2014 impact case study from Geoff Lindsay for Education**

Research into children with speech, language and communication needs (SLCN) has had impact by influencing government policy and legislation, improving provision for children and their parents, providing resources and support for voluntary organisations, and assisting local authorities and trusts in the management of SLCN services. The research informed the 2008 Bercow Review of Provision for Children with SLCN, which in turn led to the Department for Education (DfE) Better Communication Action Plan for improving educational provision.

Challenges and Practicalities of Developing Impact

- Beyond the key practicalities of what has actually changed for the beneficiary, we need to go back further.
- Warwick discovered two key things during the preparations for REF 2014.
 - i) Huge volume of impact across sciences, public policy, arts and culture which has been ongoing for a very long time
 - ii) Too reliant on institutional memory for the discovery of that impact
 - iii) Information not held systematically; much impact was never documented or recorded or even knowledge lost as researchers depart or relationships lapse

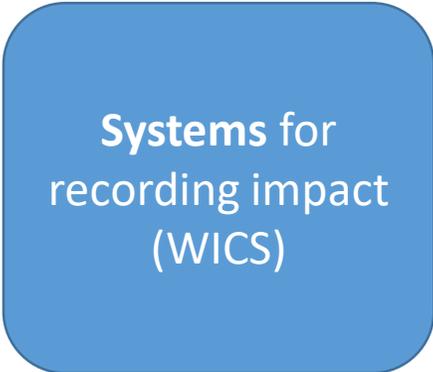
Developing an integrated, comprehensive research support environment

**Systems for
recording impact
(WICS)**

**Funding support
mechanisms
(national & local)**

**Developing
partnerships**

**Support
services for
researchers**



Systems for
recording impact
(WICS)

- Ongoing recording of impact from the inception of research award or project
- Repository to gather evidence; document impact; record testimony at the time the impact took place etc.



**Funding support
mechanisms
(national & local)**

- Research Council Impact Accelerator Accounts (BBSRC, EPSRC, ESRC etc.) – awards for evolving impact and developing partnerships with non-academic stakeholders
- Fellowships
- Warwick Impact Fund
- Warwick Brussels Office
- Translational Partnerships



- Happens in many diffuse and diverse ways particularly between individual researchers and companies, cultural organisations, hospitals etc. through normal research
- Knowledge Transfer Partnerships (KTPs) as part of Innovate UK
- Both local to national
- Company – University –Associate
- Offer many benefits to all three

Developing partnerships

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THE UNIVERSITY OF WARWICK

Warwick currently has 11 KTPs



Forging Specialists





**Support
services for
researchers**

Research and Impact Services

- REF Planning
- Dedicated Research Impact team
- Pre-award support
- Research Governance and Ethics team
- Research systems

Warwick Scientific Services

- Help companies specific technical issues in their business
- Improve their performance
- Increase competitiveness

Warwick Ventures

- Commercialises innovations from world leading research
- Advise the university's research innovators
- Close relationship with industry

**Systems for
recording
impact (WICS)**

**Funding
support
mechanisms
(national &
local)**

**Developing
partnerships**

**Support
services for
researchers**

All these features of our research environment help to drive and develop impact in the real world but success usually means we must be partners in this process from the outset.



Behaviour, Brain & Society



Connecting Cultures



Cyber Security



Energy



Productivity & the Futures of Work



Sustainable Cities



Global Research Priorities

WARWICK
THE UNIVERSITY OF WARWICK

Food



Habitability



Health



Innovative Manufacturing & Future
Materials





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W KRAKOWIE

UNIwersytet EKONOMICZNY W KRAKOWIE

RERUM COGNOSCERE CAUSAS ET VALOREM

**How to identify and optimise societal
impact
in regional innovation systems
fostering competition and connectivity
on the Regional and Municipal Level?**

inspirations from Poland...

Krzysztof Głuc, Cracow University of Economics

Regional innovation systems crucial elements

There are three necessary elements that constitute what can be called a *regional innovation system*:

- Companies
- Research and education institutions
- Public authorities

The reality of regional vs. municipal level

- Companies (regional level):
 - all possible types
 - all possible sizes
 - usually numerous sectors, profiles, etc.
 - all possible needs
 - often foreign impact
- Companies (municipal level):
 - usually different types
 - in many cases only SMEs
 - sometimes mono-profiled
 - needs limited



The reality of regional vs. municipal level

- Research and education institutions (regional level)
 - all possible types
 - all possible sizes
 - usually numerous profiles, specializations, etc.
 - all possible needs
 - often international experience
- Research and education institutions (municipal level)
 - often limited to elementary and secondary level
 - often limited size
 - no research institutions
 - limited external experience



The reality of regional vs. municipal level

- Public authorities (regional level)
 - self-governmental
 - fairly large
 - specialized departments
 - big budgets
 - various needs
 - often international experience
- Public authorities (municipal level)
 - self-governmental
 - often small
 - small budgets
 - needs limited



Societal impact...

- Naturally, societal impact is stronger (easier to mobilize and organize) on a local level
- A paradox – limited options for accelerating innovations on a local level and stronger potential for building social support



Where is innovation born?

- In every generation approx. 2% are geniuses and 10 % are super-gifted
- It is important not to loose what we naturally have
 - strong schools
 - conscious pro-innovation policy on a local level
 - transmission from regional to local level and from local to regional
 - convincing citizens on a strategic approach to innovativeness



Questions and dilemmas

- Can we grow „science” on a local level?
- How to convince local leaders that innovative economy begins in kindergarten? Who – locally – can help?
- „Decentralization” of science – how effectively we can build strong relationships between the world of research and innovation and local level?
- Strengthening innovation in SMEs – dreams vs. reality



Thank you!

Krzysztof Głuc

krzysztof.gluc@uek.krakow.pl





Impact of Science

4-6 November, Krakow

Up Next

12.30-13.00

Break

13.00-15.00

Closing Panel: “Recommendations for the Polish science system, and beyond”