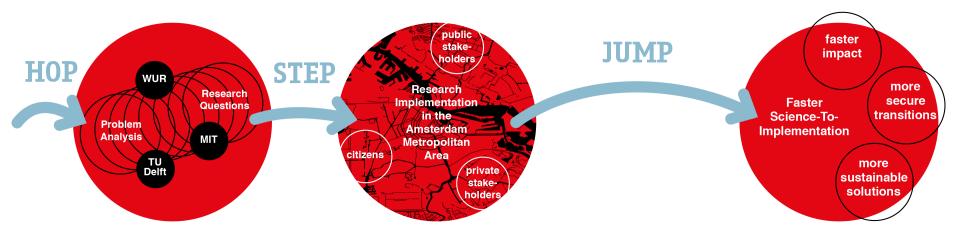




HOW WE WORK

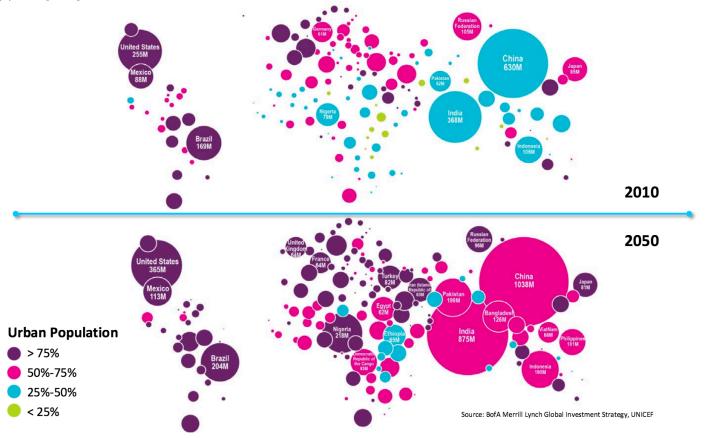
AMS Institute is positioned at a unique crossroad between fundamental sciences and the society-wide application of truly innovative solutions for metropolitan challenges. Bringing together the brightest minds in the field, our innovations have a state of the art research core and are tested and demonstrated in pilot projects and experiments throughout the city of Amsterdam. Moreover, all innovations are developed and tested together with local, national and international private and public partners, citizens and its future users.



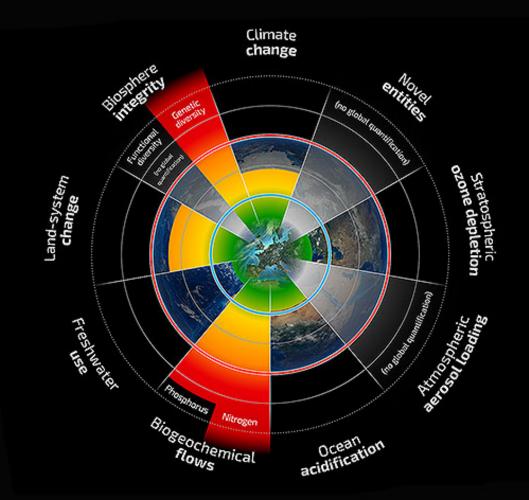
AMSTERDAM INSTITUTE FOR ADVANCED METROPOLITAN SOLUTIONS

Urbanization

Urban population by country in 2010 and 2050



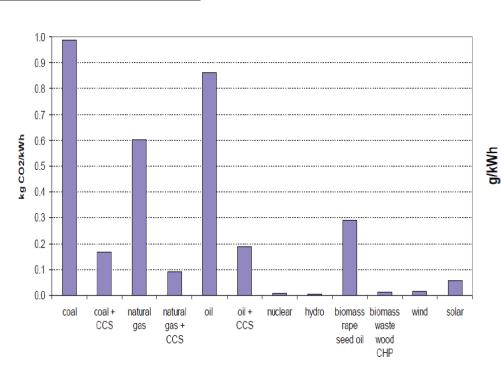
- In the next 10 years, the world's largest 600 cities will comprise nearly 65% of global growth.
- The countries with the greatest urban populations in 2050 will be China (1bn), India (875mn), US (365mn) and Nigeria (218mn).
- Urbanization has huge investment implications for infrastructure in the next 3-4 decades.

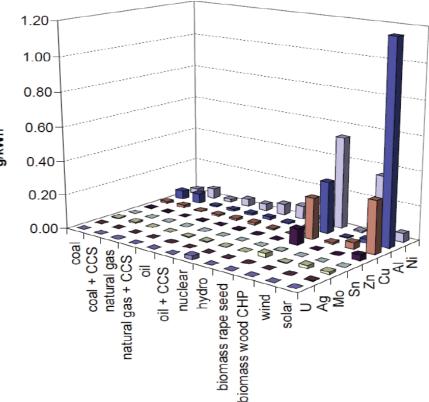


Credit: F. Pharand-Deschênes/Globaïa - Stockholm Resilience Centre, Stockholm University

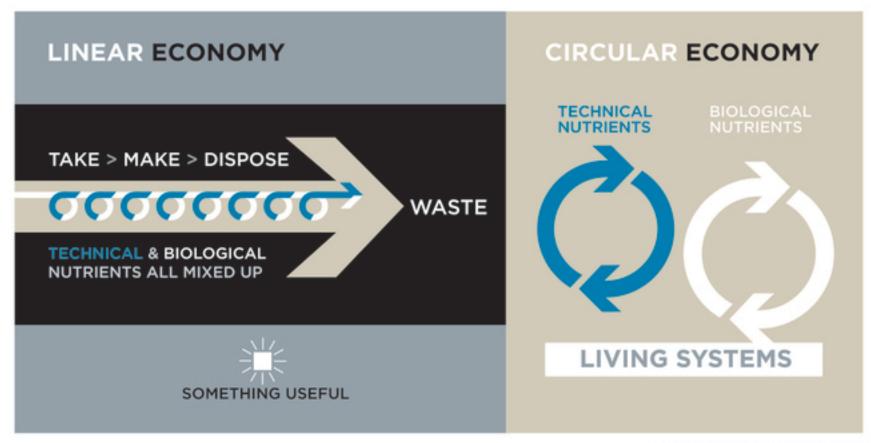


CIRCULAR CITIES & SYSTEMS THINKING

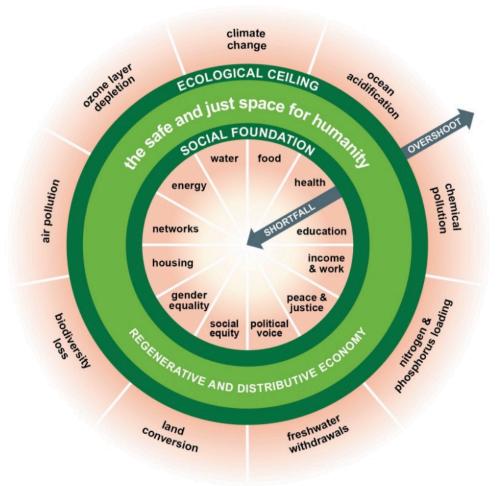




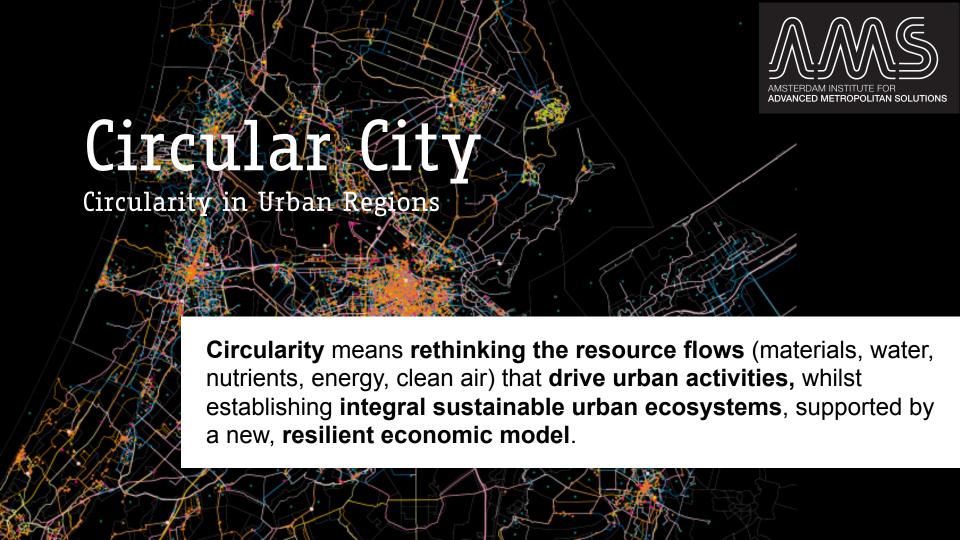
[Source: Rene Kleijn]



The Doughnut of social and planetary boundaries (2017)



Kate Raworth



CIRCULAR CITY

Topic 1: Materials & Buildings

1.a Building Design

building level

neighborhood/district level city region level and beyond

1.b Local material management

1.c Urban mining & material reprocessing

Topic 2: Nutrient recovery

2.a Small scale wastewater systems

2.b Large scale end-of-pipe refining

Topic 3: **Urban Energy Systems**

3.a Decentralized grids for energy production, exchange & storage

AMS Institute Circular City Research Program

SYSTEMS THINKING & CIRCULAR CITIES

Themes & Scales

VITAL CITY

Related topics: **Urban Food, Healthy urban living**

CONNECTED CITY

Related topics: **Urban Sensing**, **Data & Intelligence**







SPREKERS:

1. Ontwerpen aan de circulaire stad

Marleen Buizer, docent landschap architectuur en planning

2. Opstarten en in stand houden van het proces

Ellen van Bueren, Hoogleraar Urban Development Management TU Delft

3. Rekenen aan een circulaire stad

Tamara Streefland, sustainability consultant bij Metabolic

