Urban metabolism, circular economy and SDG11. What are the links?

Aristide Athanassiadis – SociSDG – 15th February 2018







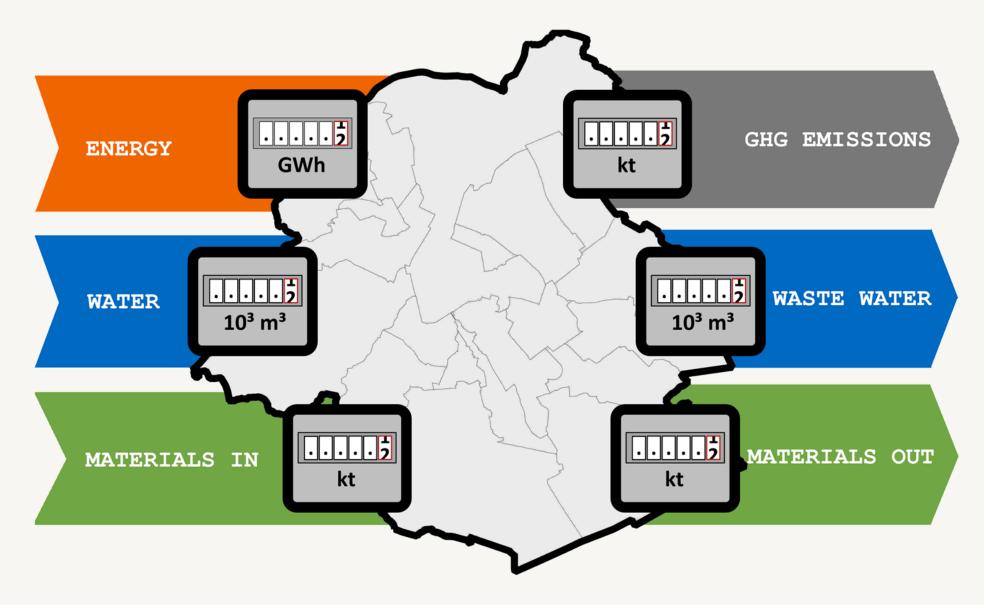




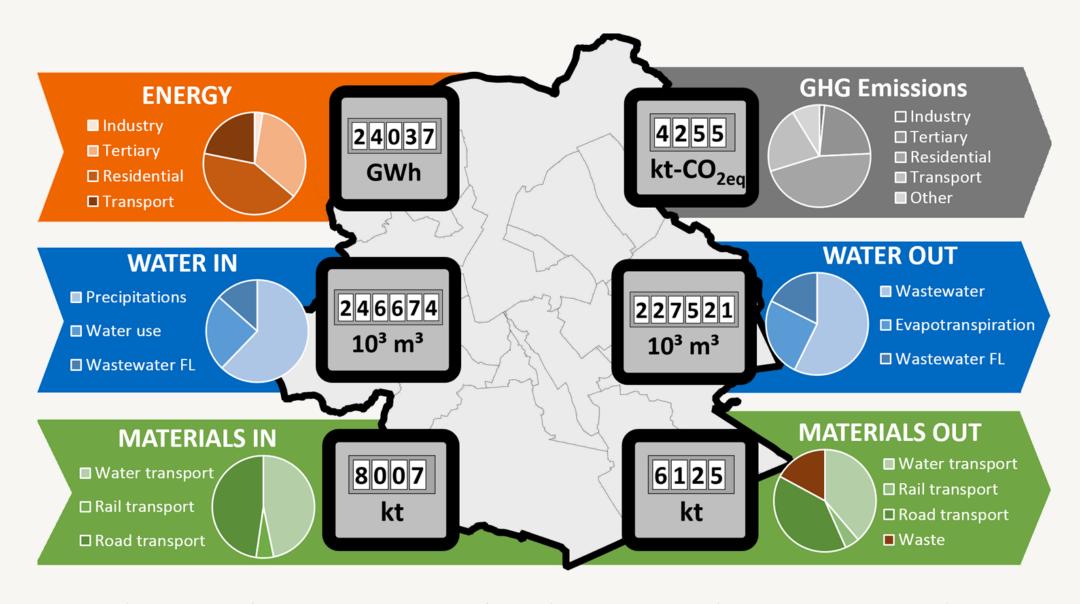




Urban Metabolism



Urban Metabolism



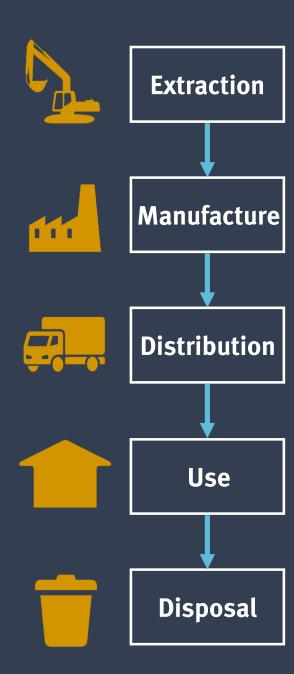
Brussels' urban metabolism - linear and open

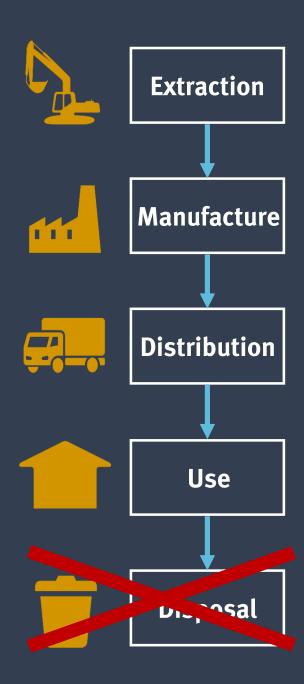


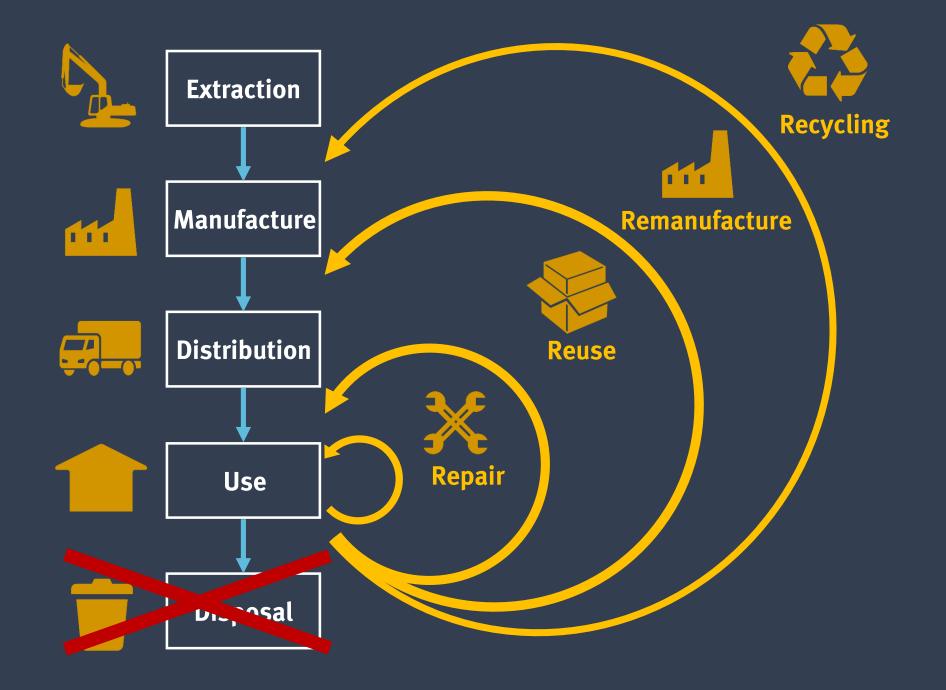
Circular Metabolism

An economic system of exchange and production that is aiming to increase the resource efficiency and decrease the environmental impact at every life cycle stage of products (goods and services), as well as increase human well-being.

Circular Economy







Programme Régional en Economie Circulaire 2016 – 2020

Mobiliser les ressources et minimiser les richesses perdues :

Pour une économie régionale innovante



Mars 2016

3 ministries

(Economy, Environment, Waste)

4 strategic themes

(Transversal, Sectoral, Territorial, Governance)

4 sectors

(Construction, Resources & Waste, Logistics, Retail, Food)

111 actions

Brussels' Circular Economy Plan

SUSTAINABLE DEVELOPMENT GOAL 11

Make cities and human settlements inclusive, safe, resilient and sustainable



11.6

By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

Link with SDG 11

Better Understanding / learning

(TWTW), Metabolism of Cities About • OMAT • Publications & Research • Data • Stakeholders Initiative • More •

Overview

Module 0: Welcome to the course

Module 1: Introduction

Module 2: Accounting methodologies and indicators

Module 3: Case studies

Module 4: Urban metabolism policies

Module 5: Final quiz

Syllabus

Urban Metabolism for Policy Makers

Welcome to the first online course on Urban Metabolism for Policy Makers!

The world is urbanising rapidly. In 2009, the number of people living in cities (around 3,5 billion) surpassed the number living in rural areas. While the urban population is hosted only on 3% of global land area, it is also responsible for over 70% of natural resources and energy use and for 60% pollution emissions and waste generation. While cities are responsible for the greatest share of manmade environmental impact, they are also the places 80% of global GDP is produced and are the nodes of innovation. Therefore, the fight against climate change will be won or lost in cities.

Yet, cities are extremely complex systems where social, economic, political, territorial, ecological, resource, waste, etc. challenges coexist. Urban metabolism is way to look at cities from a systemic point of view linking all the above mentioned challenges. This metaphor conceptualises the city as living organism where resource flows enter, are transformed or stocked and waste flows exit the

This course is targeting policy makers who are interested in learning how urban metabolism can help them develop more comprehensive and system urban policies in order to meet the Paris Agreement targets.

To know what Urban Metabolism is, have a look at the following video!



This is the first MOOC provided by the GI-REC (Global Initiative for Resource Efficient Cities). The GI-REC is a cooperation platform offered by UN Environment to connect different institutions that are using systems approach (and specifically urban metabolism) towards building low-carbon, resilient and resource efficient cities. This MOOC is produced and run for you by Metabolism of Cities, in partnership with the League of Cities of the Philippines and UN Environment.





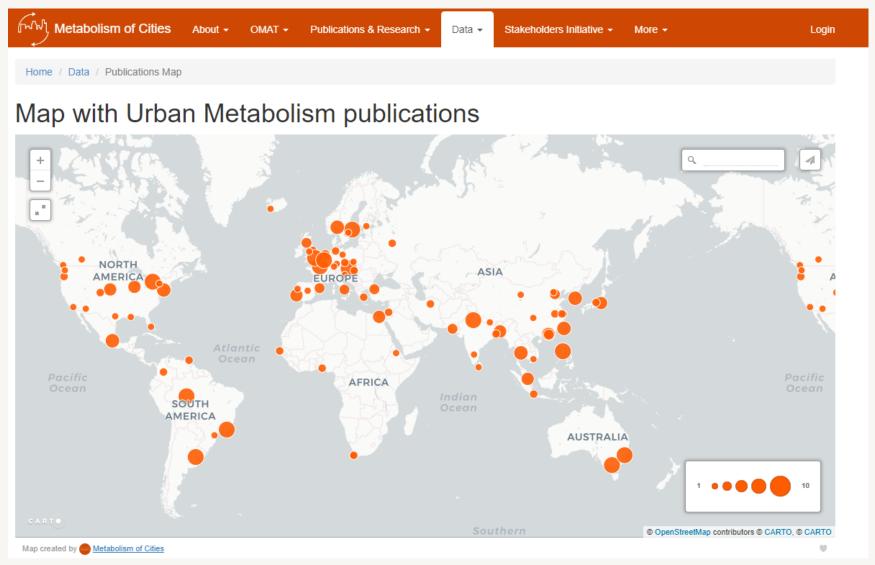




nttps://metabolismofcities.org/mooc

Link with SDG 11 - How can we scale up?

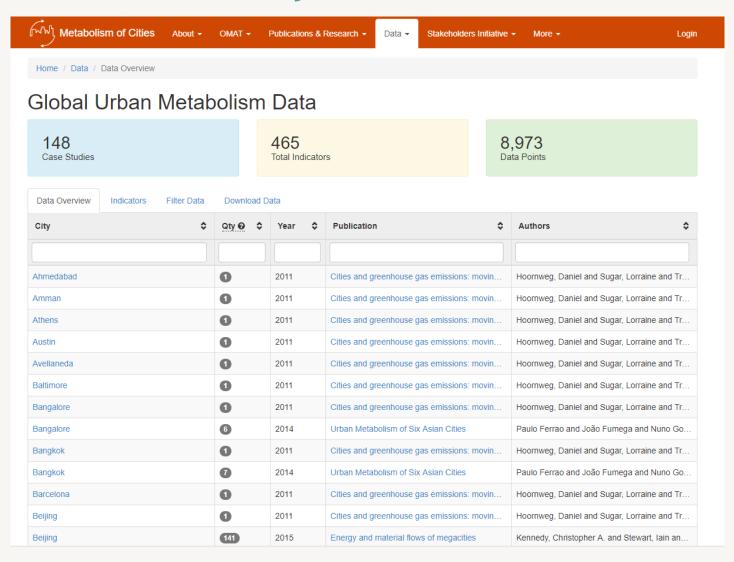
Available/Accessible curated information



Link with SDG 11 - How can we scale up?

https://metabolismofcities.org/page/map

Data collection & analysis (Evidence-based policies)



https://metabolismofcities.org/page/casestudies

Link with SDG 11 - How can we scale up?

Thanks

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