

The Moveable Nexus: Design-led urban food, water and energy management innovation in new boundary conditions

M-NEX is a design-research based effort that aims to deliver greater access to Food-Energy-Water (FEW) system assessment tools to prototype and iterate a FEW-driven design process and platform across multiple scales and contexts. As such, M-NEX is explicitly an Innovation and Implementation project.

Three objectives and targets

To implement existing FEW research in cities through the design practice.

To aggregate existing FEW tools into one analytical decision-support tool.

To use existing knowledge and aggregated tool in a series of design workshops at six living labs.

Design-led research approach

Each partner works at local living lab on innovative solutions of FEW management.

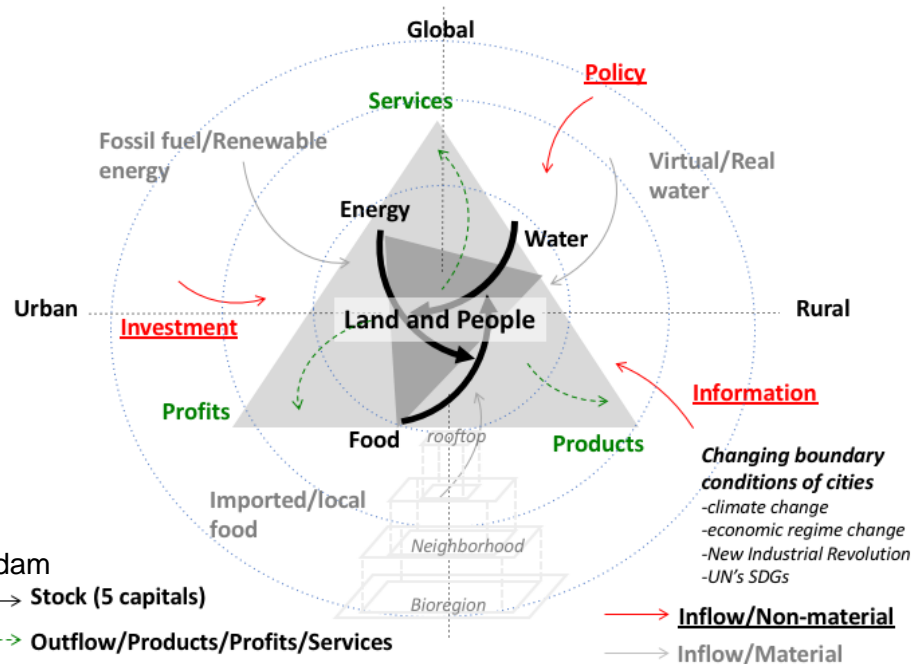
International workshop every 6 months at one of the six study regions.

Evolutionary growth of design methods, evaluation tools and engagement mechanism for the M-NEX platform.

Incremental Growth of M-Nex



Common concepts: FEW as Quality of Life for Sustainability



Partners: UK-Prof Greg Keeffe, Kevin Logan; Qatar-A.Prof Anna Grichting, Maryam Alfaraidy; USA-A.Prof Geoff Thun, Dr. Ming Xu; JP-Prof Wanglin Yan, Prof Rajib Shaw, Dr. Bijon Kumar; Netherlands-Prof Andy van den Dobbelsteen, Nick ten Caat; Collaborator: AU-Prof Rob Roggema

Work Packages, Milestones and Deliverables

M-Nex will develop three research platforms: a design platform, an evaluation platform and a participation platform through participatory workshops in a row. Each platform will assemble, structure and synthesize existing knowledge, tools, data, innovation practices, co-design methods, implementation models and case studies of systemic and applied solutions across the FEW-nexus.

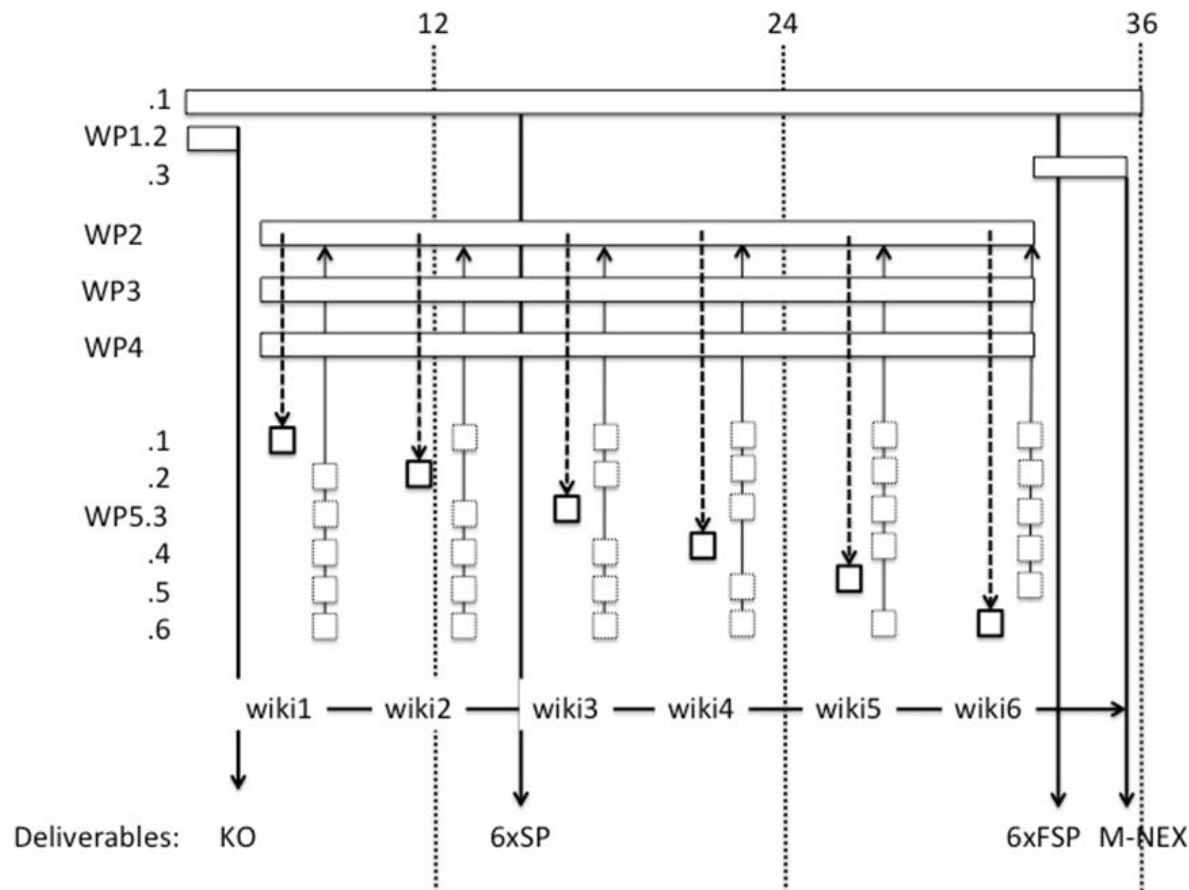
- WP.1 Project management
- WP.2 Design Platform
- WP.3 Evaluation Platform
- WP.4 Participation Platform
- WP.5 Living Labs
- WP5.1 Belfast, UK
- WP5.2 Doha, Qatar
- WP5.3 Detroit, USA
- WP5.4 Sydney, Australia
- WP5.5 Tokyo, Japan
- WP5.6 Amsterdam, Netherlands

Note:

KO : Kick-off;

SP: Strategic Plan; FSP: Final Strategy Plan;

wiki1~6: incremental M-Nex platform by wiki-like ICT tools.



M-Nex Kick-off Meeting in Sydney, 2018/05/16-18

