


Empowering cities

Innovative strategies for Smart buildings and citizens

TRANSFERRING KNOWLEDGE OF INTEGRATED DISCIPLINES TO SOCIETY

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A process by which knowledge, ideas and experience move from the source of knowledge to the recipient of that knowledge.

KIRKPATRICK MODEL



Level 1
Reaction

Level 2
Learning

Level 3
Behavior

Level 4
Results

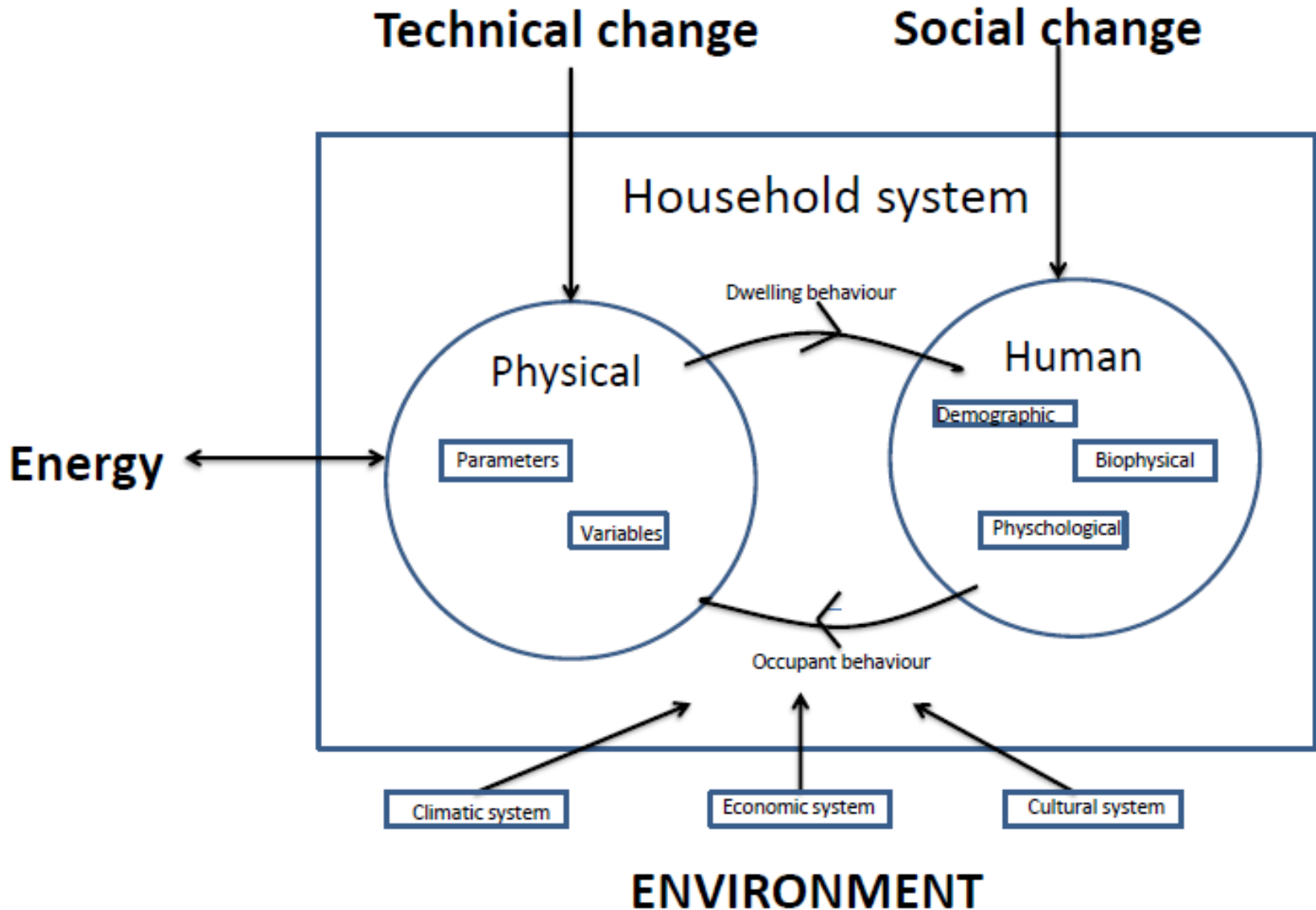
PHILLIPS MODEL

ROI

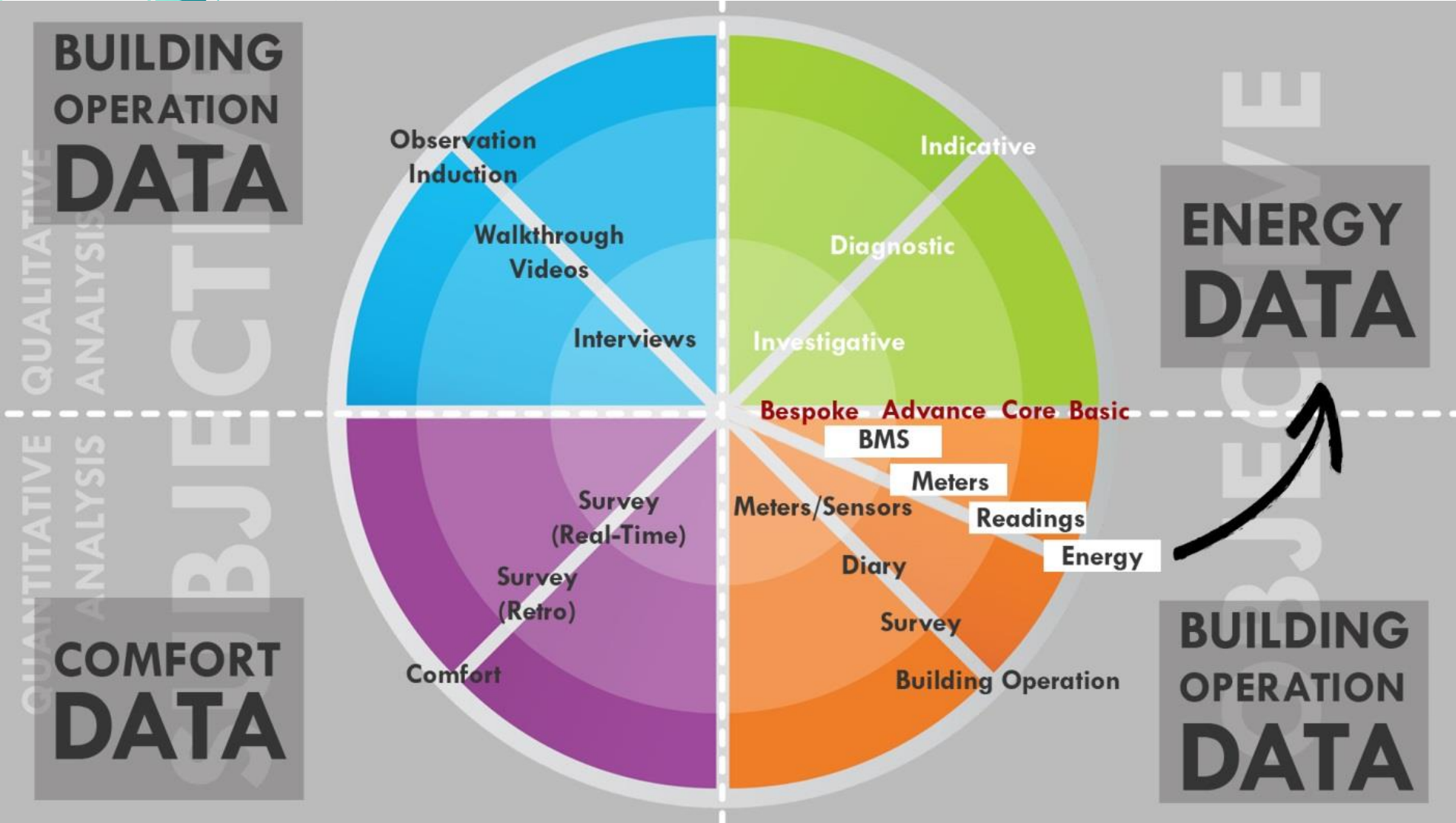
KAUFMAN MODEL

IMPACT ON THE MEGA LEVEL

INTEGRATED FRAMEWORK FOR ENERGY USE & BEHAVIOR CHANGE



DATA COLLECTION METHODS, TYPE of DATA & RESEARCH METHODS, NATURE & DEPTH of STUDY – NEED4B CASE



STRATEGIC ENERGY TECHNOLOGY (SET) PLAN TIMELINE

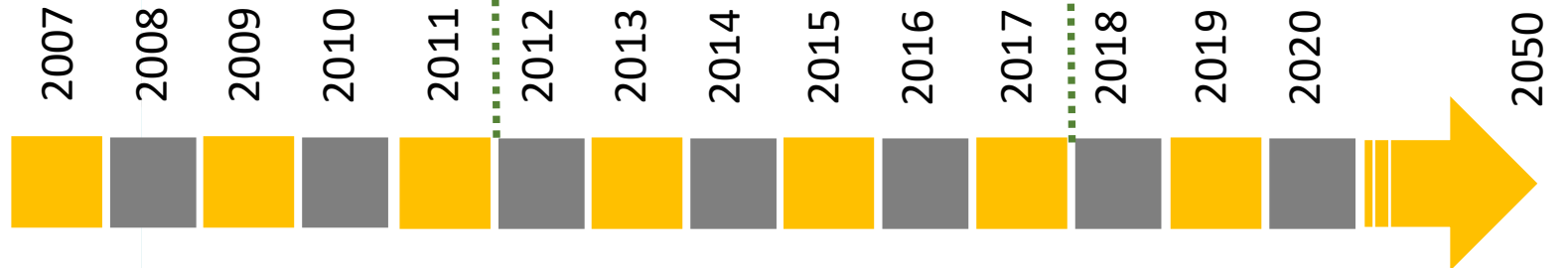


< 60 kWh/m²/year

- locations • building types
- climatic zones • field practices

NEED4B

- envelope performances
- system performances
- smart readiness • expertise



PLANNING PHASE (2007-2017) IMPLEMENTATION PHASE (2018-2050)

COM(2006) 847
COM(2007) 1
COM(2007) 723

COM(2010) 639

COM(2015) 6317

20-20-20

COM(2009) 519

COM(2013) 253

COM(2016) 763

80-95 % GGE REDUCTION

STRATEGIC ENERGY TECHNOLOGY (SET) PLAN

An increasing number of citizens are to actively participate in an enhanced and evolving energy market that will improve their quality of life and transform their cities' living environment.

These improvements start from the needs of citizens as energy consumers, passing through the requirements of their buildings and cities, and rounding it all up to a performable energy system.

Research and innovation actions are needed to address all these new challenges.

- SCHOOLS / ACADEMIA
- SMEs
- PRIVATE ORGANIZATIONS
- PUBLIC ORGANIZATIONS

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THANK YOU...

www.ozyegin.edu.tr/energy

