



UNECE

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY
TOMORROW TODAY



POLICIES & PRINCIPLES IN INNOVATION PROCUREMENT: EUROPEAN AND AUSTRIAN EXPERIENCES

Eva Buchinger, AIT Austrian Institute of Technology

UNECE “Building Back Better: Innovation-enhancing Procurement for Sustainable Development”

Webinar, 23 October 2020



LEARNINGS FROM...

The following recommendations are drawn from activities, projects and more than 10 year experience in the field of innovation procurement, such as:

AUSTRIAN ACTION PLAN
PUBLIC PROCUREMENT
PROMOTING INNOVATION



ERAC EUROPEAN RESEARCH
AREA AND INNOVATION COMMITTEE
ON INNOVATION PROCUREMENT



MLE MUTUAL LEARNING EXERCISE
ON INNOVATION PROCUREMENT



INNOVATION PROCUREMENT
PROCESS & IMPACT



INNOVATION PROCUREMENT
BROKERAGE
INNOVATION
PROCUREMENT
BROKERS



POLICY PRINCIPLES

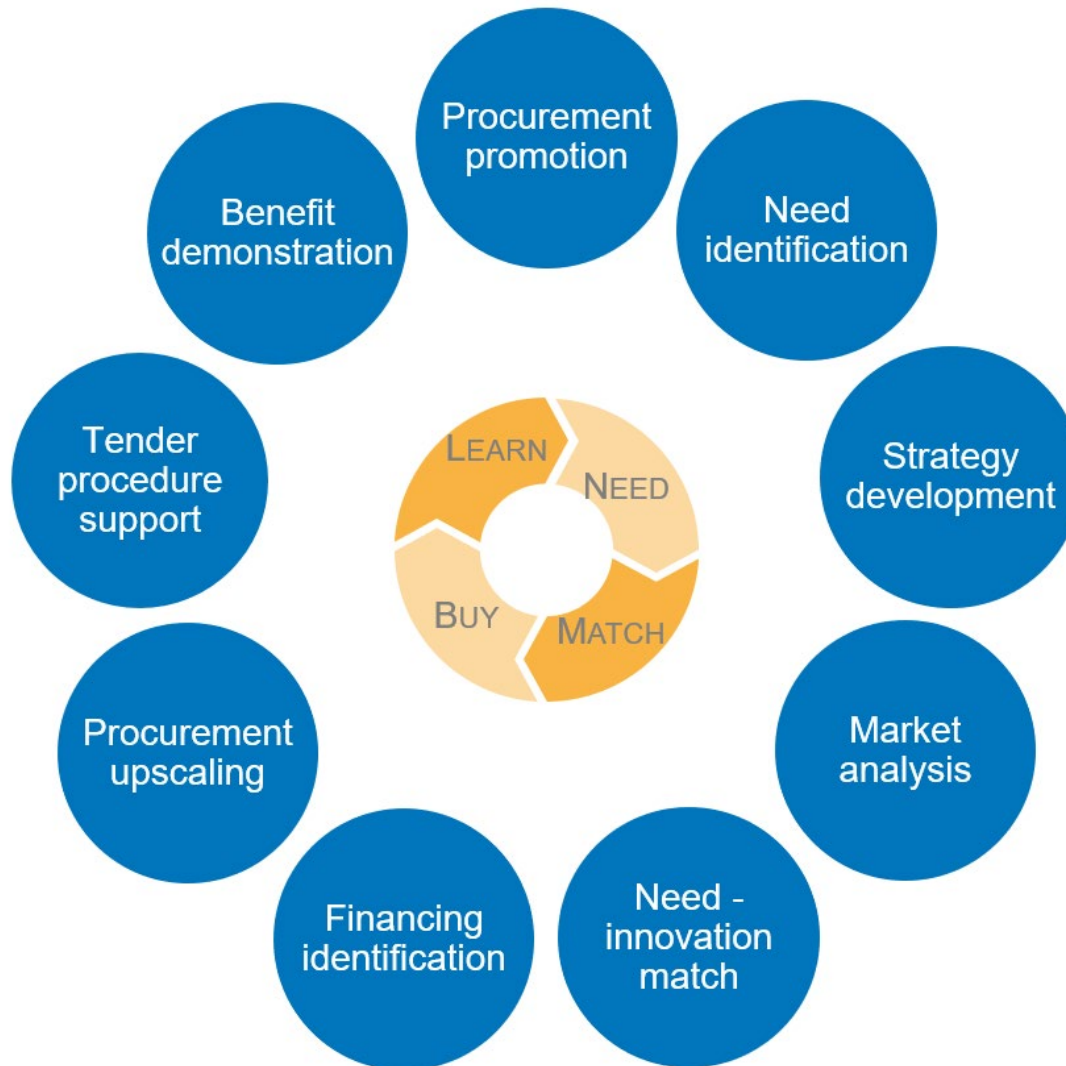
INNOVATION PROCUREMENT

- Develop a national **INNOVATION PROCUREMENT ACTION PLAN**
- Establish an **INNOVATION PROCUREMENT SERVICE-NETWORK** linking from regional to national to European/international levels, and including a service-portfolio for the entire innovation procurement process
- Provide **INNOVATION PROCUREMENT FUNDING** for piloting & highly innovative & highly risky procurements
- Communicate **INNOVATION PROCUREMENT WIN-WINS** to all stakeholders from public procurers to suppliers to researchers to intermediaries to politicians to citizens

PROCESS PRINCIPLES INNOVATION PROCUREMENT



SERVICE PORTFOLIO INNOVATION PROCUREMENT



SUSTAINABILITY EXAMPLE “PLUS-PLUS-ENERGY-BUILDING”

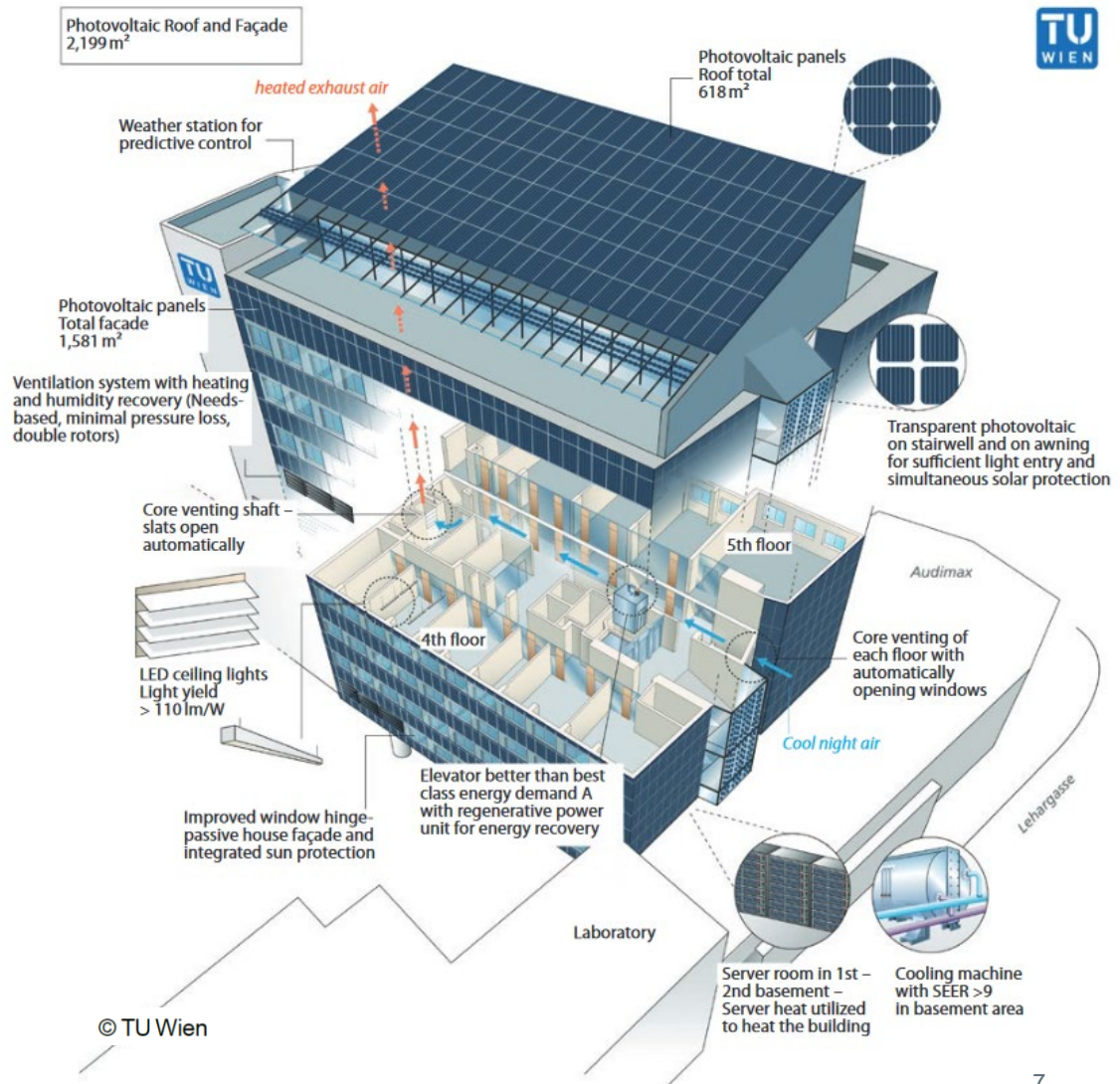
Technical University of Vienna (TU) High-rise office building

- Plus-energy
 - Energy supply higher than energy needed to operate BUILDING
- Plus-plus-energy
 - Energy supply higher than energy needed to operate BUILDING + OFFICE EQUIPMENT



“PLUS-PLUS-ENERGY” INNOVATIONS & CIRCULARITY

- Produce energy: photovoltaic system (i) roof, (ii) façade, (iii) stair house windows
- Recover energy: (i) braking energy of the elevators, (ii) heating from server room which in turn cool the servers, (iii) night cooling system using the “thermal lift”
- Exchange energy: (i) surplus is transferred to neighboring TU buildings; (ii) if deficit, electricity is drawn from the net



ECOLOGICAL & ECONOMICAL & SOCIETAL BENEFITS

- Volume: 26 Mio. EUR
- Innovation relevant: 65%
- Lots: 80
- Impact
 1. Increase decarbonization & digitalization & circularity
 2. Decrease energy costs 90%
 3. Satisfy user needs
 4. Successful innovation signal for markets
 5. Lighthouse project & demonstrating TU's R&D excellence
 6. New standards & norms for building-/fire-authorities

Q&A

eva.buchinger@ait.ac.at

