



# Recent Developments and potential Input for MSI Roadmap Development

**EERA Joint Programme Smart Cities  
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**Deliver on the objectives of the SET plan**

**Accelerate development of new energy technologies**

- Improve coordination and cooperation
- Reduce duplication and fill gaps
- Increase efficiency and effectiveness

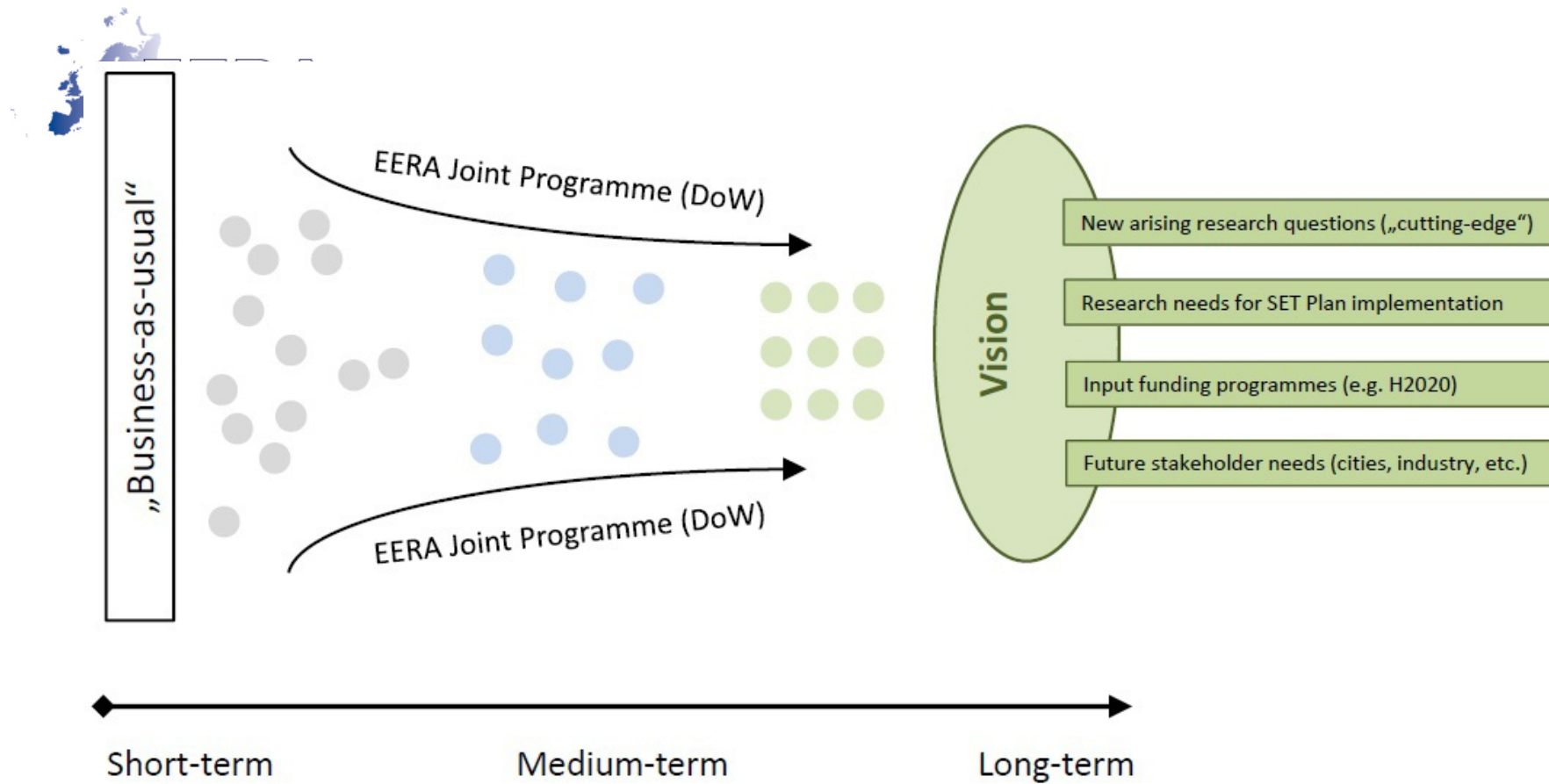
## EERA Joint Programmes, basis

Clear and efficient coordination

Long term strategy and work plan

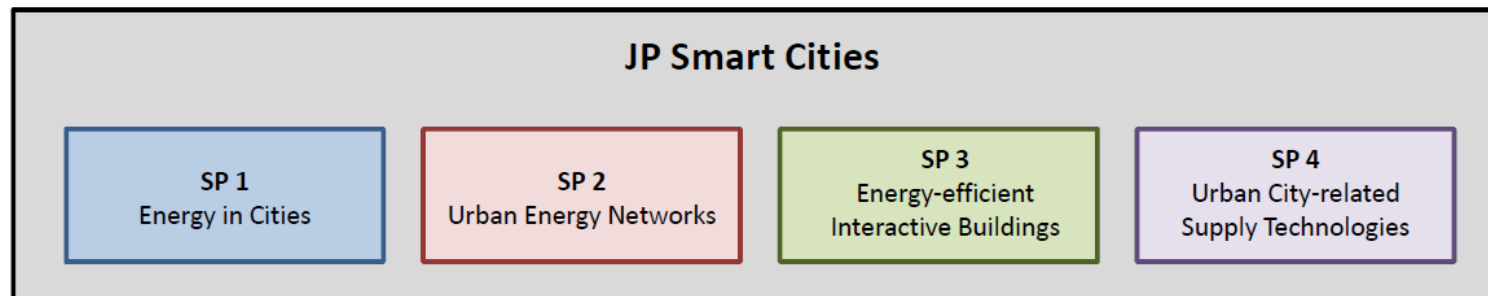
- Agreed Objectives and Milestones
- Agreed Description of Work
- Agreed Division of Tasks and Responsibilities
  - Context supporting specialisation of Participants
  - Virtual centres working as one team on one topic

Added value of European cooperation



- Current collection of „random“ projects based on national and EU funding
- First streamlining of research activities
- Strategic alignment and maximising synergies/complementarities

- Main drivers/challenges
  - Climate change – CO<sub>2</sub> reductions
  - Worldwide trend of urbanisation
- Aims and objectives
  - Key instrument for supporting SET Plan Smart Cities and Communities Initiative
  - Important focus on demand side and energy efficiency
  - Development of scientific instruments for urban energy technology integration
  - Guide radical change in urban energy systems
  - Multi-technology perspective for city-wide integrated energy planning and management
- Structure EERA JP Smart Cities



## Partnership and Resources

- 60 research institutions from 14 European countries
  - 15 full participants
  - 45 associated participants
- 2 umbrella organisations
  - UKERC (United Kingdom) and BERA (Belgium)
- 4 industry partners
  - ENEL, Ericsson, Telecom and Luccioni (all Italy)
- Total contributed human resources: **192.85 py/y**
- Potential new participants:
  - TECNALIA
  - University of Wuppertal
  - HFT Stuttgart



## Recent developments

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- First official review of JP Smart Cities ongoing
  - 3 external reviewers: Ben Kroposki (NREL, US), HG Schwarz (Bmvit), Nico Tillie (City of Rotterdam)
  - Review level 1: focus on strategy, organisation, commitment of partners and relations to stakeholders
  - Review results to be presented @ EERA Congress, Brussels, 18-19 April 2013
- Next big workshop on 4+5 July 2013 in Madrid @ CIEMAT premises
  - Reporting on JP progress (milestones, deliverables, results)
  - Thematic workshops, discussions on joint proposals
  - Steering Committee Meeting (strategic outline of JP)
  - Inclusion of new partners
  - Team-building and networking
- Under preparation: EERA JP Smart Cities webpage, JP-logo, dissemination material (folder, etc.)
- Under discussion: Set-up of „City Advisory Board“

## Current activities within the JP

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- 1<sup>st</sup> year of operation completed
  - Strategic update of Description of Work (DoW) completed
- Scientific mapping and screening of:
  - Ongoing research projects at national and European level
  - State-of-the-art tools and methods
  - Existing research infrastructure
- Gap analysis
  - Identification of research gaps in current programmes
  - Collection of research needs from relevant stakeholders
- Expanding international collaborations towards China/India
  - Scientific advice for EC in official dialogue with partner countries
  - JP Smart Cities as a „one-stop-shop“ for EU research on Smart Cities
  - Under preparation: EU-China Workshop on Urbanisation, May, China



- 18 – 19 April 2013, Brussels, Renaissance Hotel
- Gathering of entire EERA Community
- Official review of 4 JPs
  - JP Smart Cities
  - JP Geothermal
  - JP Photovoltaics
  - JP Wind Energy
- High-level panel discussions
  - Potential future scenarios for EERA
  - Relations to Industrial Initiatives
  - Status of the SET Plan and role of energy research in Europe
  - Open dialogue with EC

- Use EERA JP Smart Cities as a basis for starting Roadmap Discussion
- Starting Documents:
  - Executive Summary of research tasks of EERA JPSC
  - Full Joint Programme Text (DOW – Description of Work for detailed questions) of EERA JPSC

## Suggestion for process

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- Development of a MSI SC Roadmap
- Alignment with EIP SIP
- Joint Input from MSI Smart Cities and EERA JPSC in EIP
- April - June: Distribute information as basis for discussion and gathering first feedback
- Summer: first draft with written input
- Autumn: Workshop with MS Representatives, Funding Agencies and Experts
- Until end year  
feedback and final document MSI Roadmap