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# **PED Programme Positive Energy Districts for Sustainable Urban Development**

**Outline of R&I Programme, Framework Definition**

26 November 2019

Workshop Mission Innovation Austria, Wien



# Contents

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- Mission
- Programme structure
- Governance structure & coverage
- Goals for 2019-2020
- Joint calls & actions
- Consultation



## Mission of the SET-Plan Action 3.2

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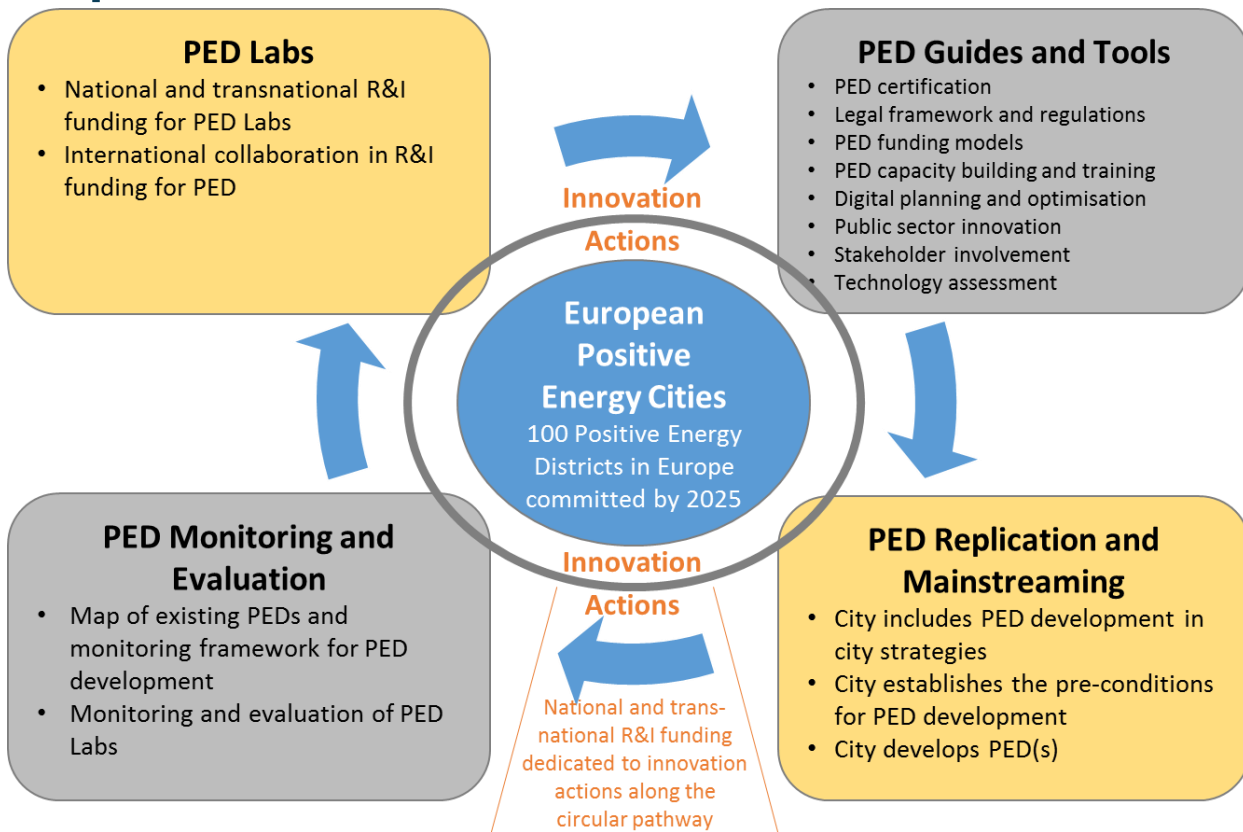


“Enhance capacities of cities, industry and research to make Europe a global role model and market leader

- in technology integration for and large scale implementation of **Positive Energy Districts** taking into account aspects of inclusiveness
- with the aim **by 2025** to have at least **100 successful Positive Energy Districts** synergistically connected to the energy system in Europe and
- with a strong export of related technologies.”

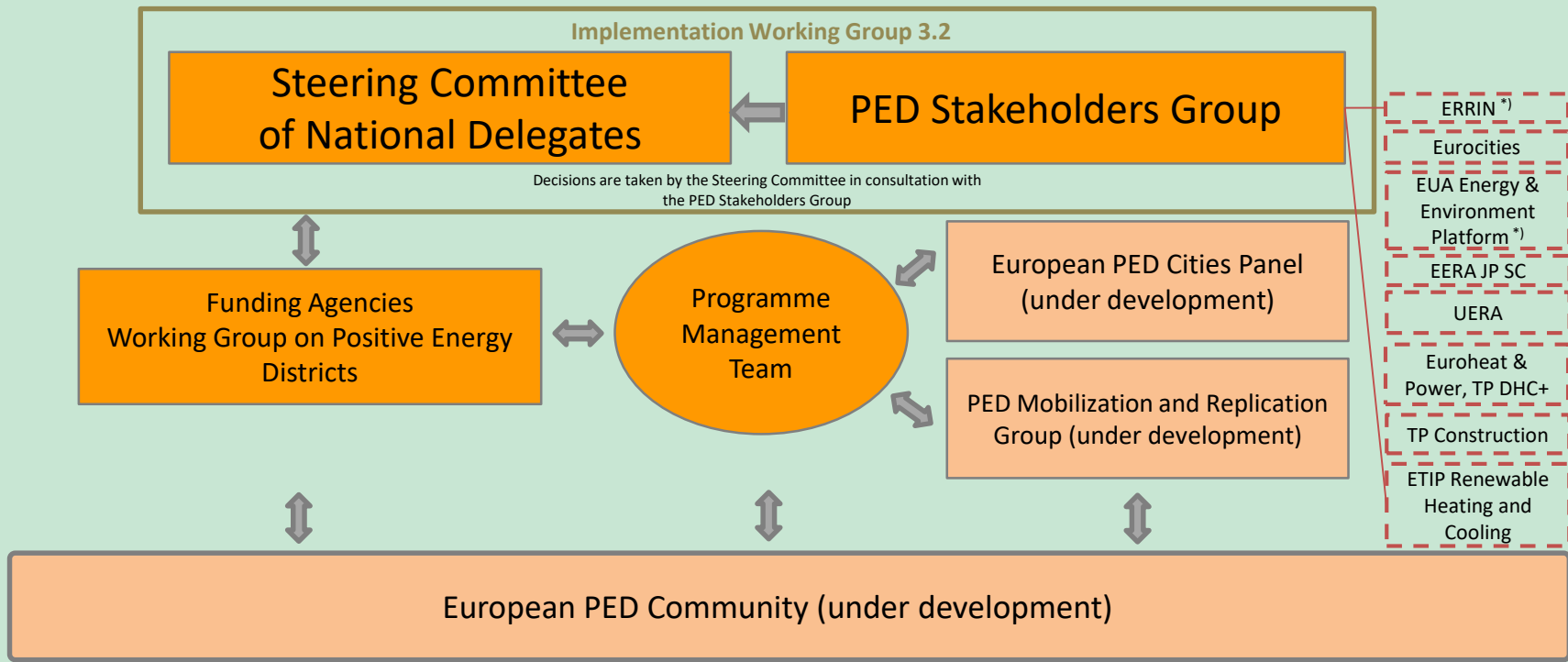


## Implementation Plan 3.2 for PEDs





# Governance Structure SET-Plan Action 3.2





## SET-Plan Action 3.2 Countries

**15 countries** actively support the SET-Plan Action 3.2:

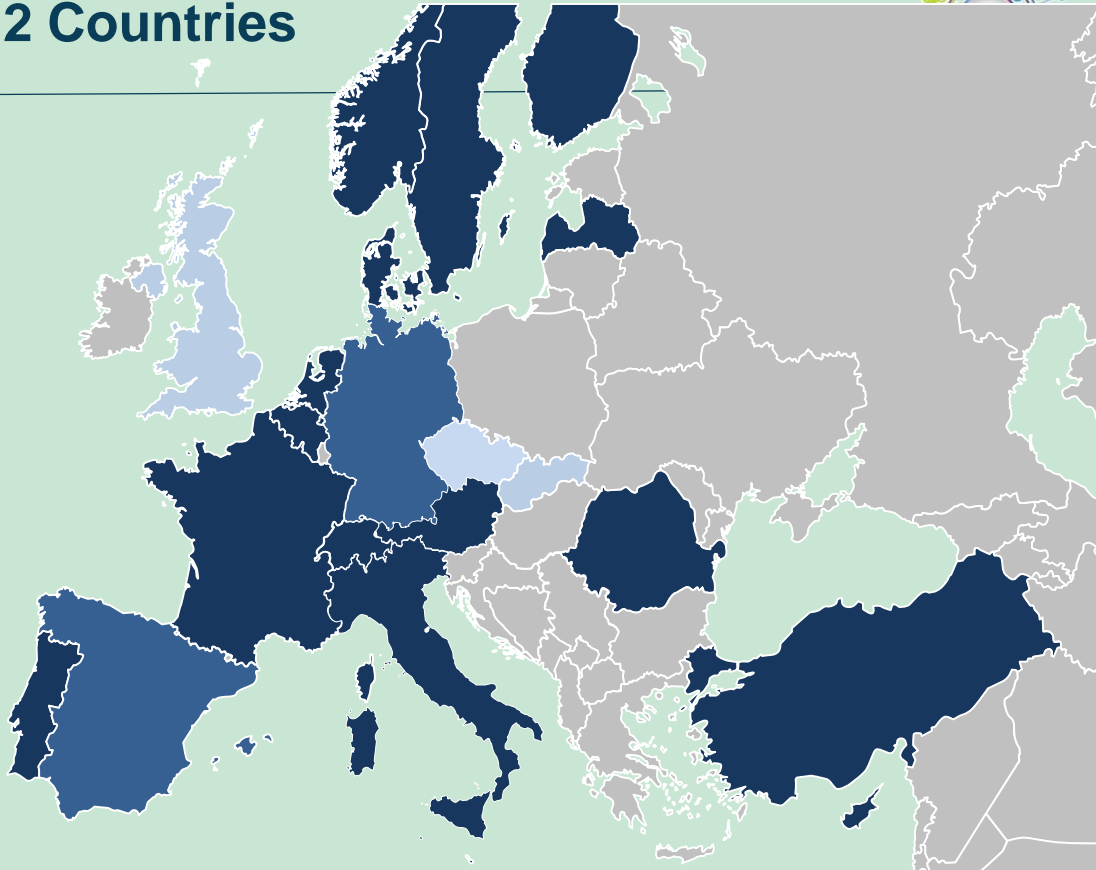
**Members:** AT (Chair) CH  
FR IT NL SE

**Observers:** BE CY DK  
FI LV NO PT RO TR

**Decision pending:**

DE ES

**Undecided:** UK CZ SK





## Expected tangible results 2019/2020

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Common PED  
Framework

Launch of PED Call I and  
II

PED Mapping in Booklet

PED City Panel and PED  
Mobilisation and  
Replication Group  
established

Preparation of co-funded  
partnership under  
Horizon Europe



## PED Booklet of 28 Cases across Europe

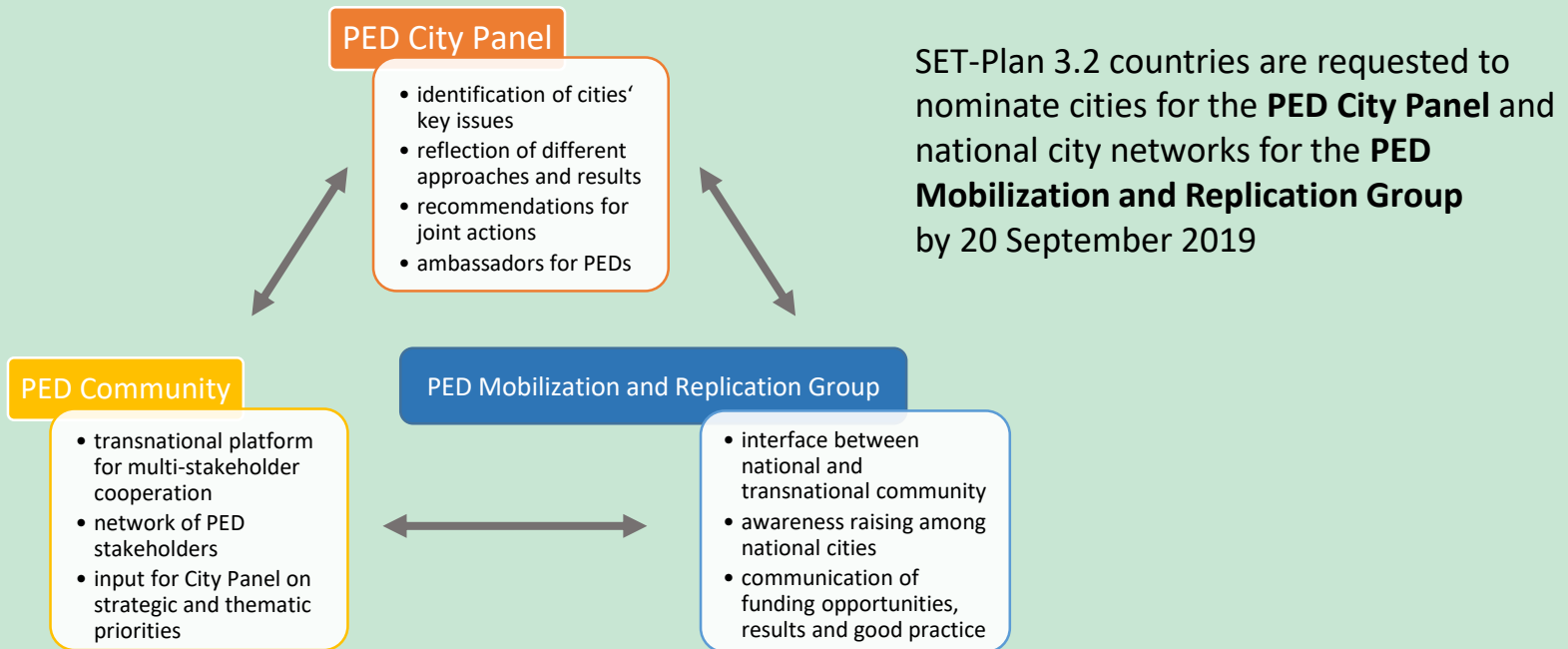
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- [https://jpi-urbaneurope.eu/app/uploads/2019/04/Booklet-of-PEDs\\_JPI-UE\\_v6\\_NO-ADD.pdf](https://jpi-urbaneurope.eu/app/uploads/2019/04/Booklet-of-PEDs_JPI-UE_v6_NO-ADD.pdf)
- → updated version and synthesis by end of the year

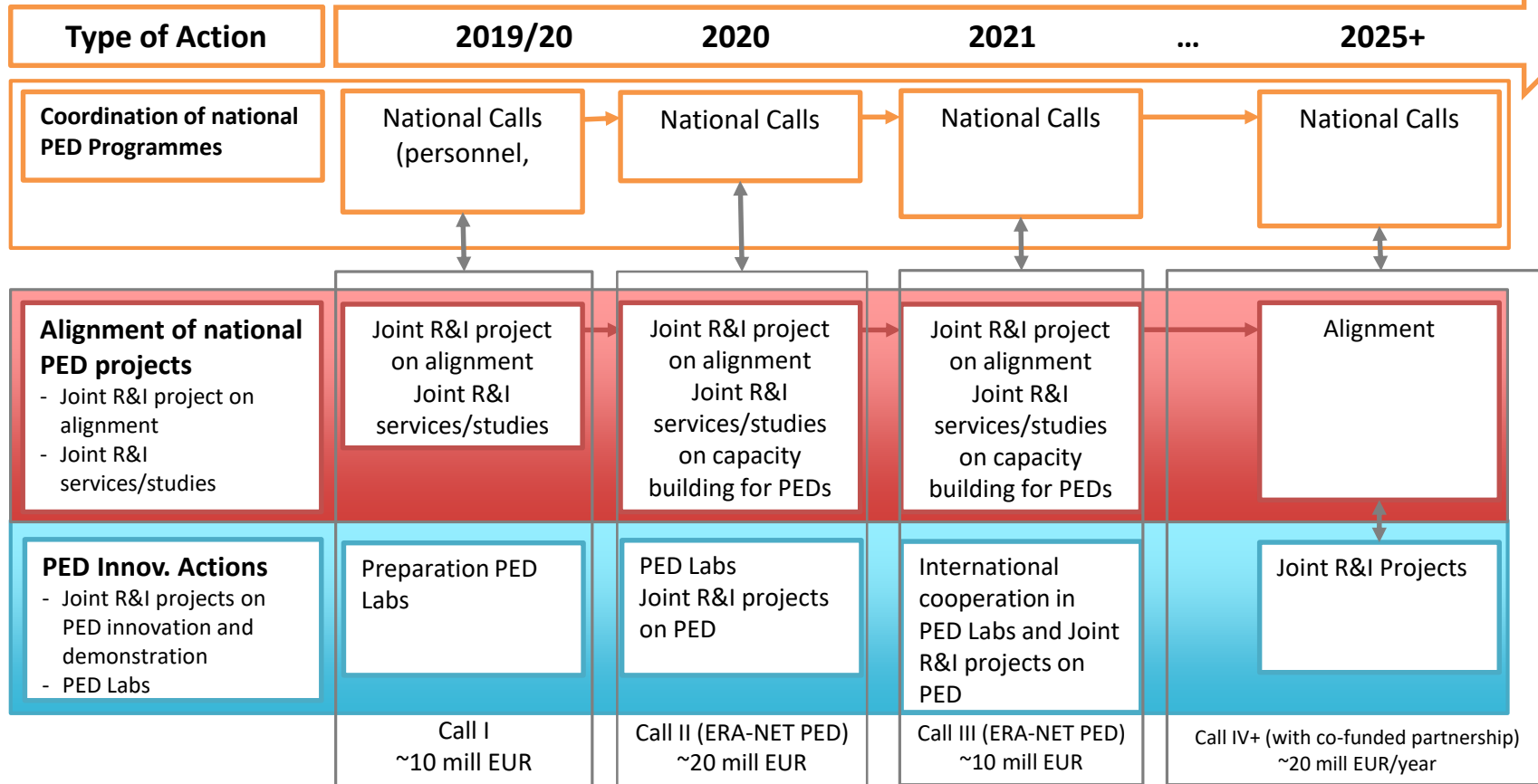




# European PED Community



# Call Agenda on PEDs – connecting national R&I programmes





## Mission: 100 Positive Energy Districts in Europe by 2025 synergistically connected to the energy system in Europe



**Liveable, sustainable, inclusive urban neighbourhoods**

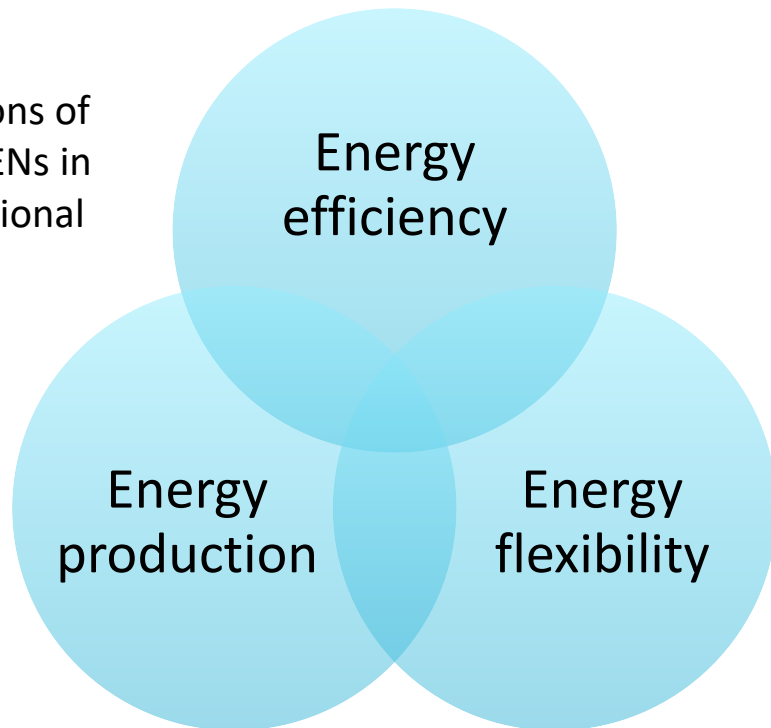


# PED Framework under national consultation

(due end of 2019)



Functions of  
PED/PENs in  
the regional  
energy  
system



## Target:

Optimisation of the three functions of PEDs (energy efficiency, energy flexibility and energy production) towards climate neutrality and energy surplus by taking into account the guiding principles

## Guiding principles:

- Quality of life
- Inclusiveness
- Sustainability

## Enablers:

- Political vision and governance framework
- Active involvement of problem owners and citizens
- Integration of energy and urban planning
- ICT and data management



## PED Framework under national consultation (due end of 2019)

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*“Positive Energy Districts are **energy-efficient** and **energy-flexible** urban areas which produce **net zero greenhouse gas emissions** and actively manage an **annual local or regional surplus production of renewable energy**. They require integration of different systems and infrastructures and **interaction between buildings, the users and the regional energy, mobility and ICT systems**, while optimising the **liveability of the urban environment** in line with social, economic and environmental sustainability.”*



## Framework definition: next steps

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- Potentially include a relevant topic for a R&I service/study in Call I (to be discussed in the FAWG-PED on 8 November 2019)
- An expert workshop on the theme of the PED framework to be organised in spring 2020 with the following goals:
  - To **describe possible national or regional approaches to PED** depending on the relevant climate zones and energy system configurations
  - To **extract best practice cases** from existing national or regional approaches
  - To map the way towards a set of more detailed (regional?) **PED definitions** and a **future PED certification framework**



## PED Framework under national consultation (until end of 2019)

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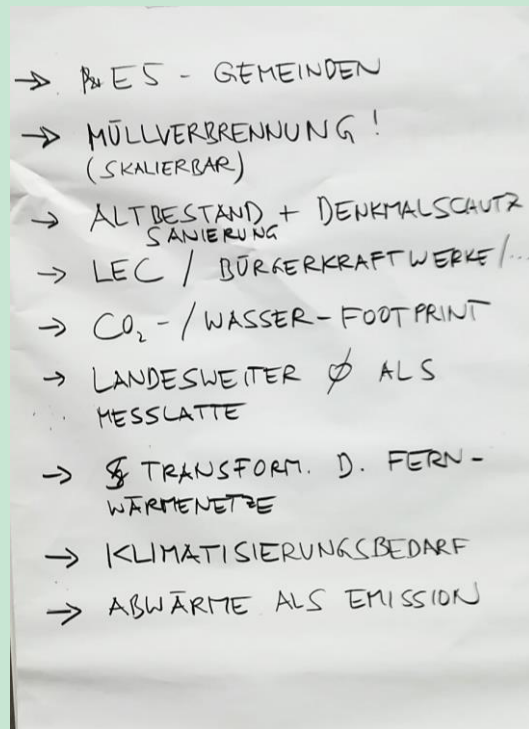
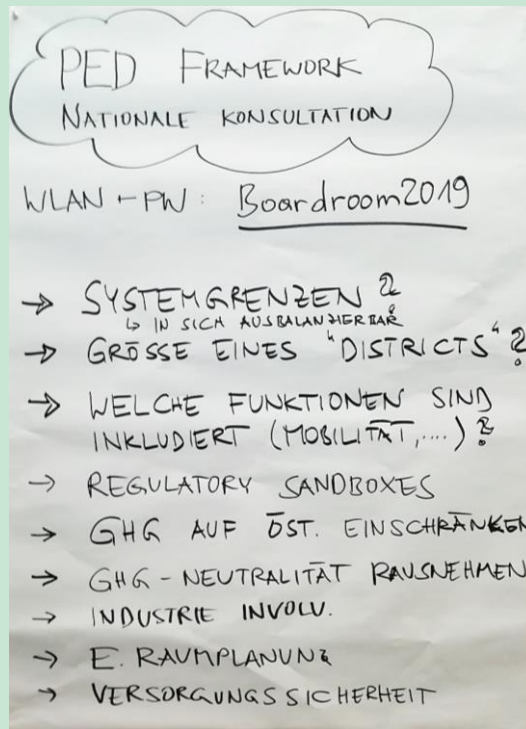
### → National/PED stakeholder consultation – key questions

1. How does the proposed PED reference framework **align with your national approach for PEDs** or related ongoing activities/projects/programmes on national, regional and municipal levels?
2. Which **aspects are of particular importance** from your national point of view to include in the PED reference framework? Which of these **aspects are covered well/not covered well?** (renewable energy sources, boundary conditions, economic, technological, social, etc. aspects)
3. How does the framework **reflect and consider different existing PED approaches** in your country/region? (incl. zero-emission, low-carbon, climate neutral, 2000 Watt, ...)
4. Does the outline put **adequate emphasis on different aspects of sustainable urbanization** (e.g. urban economy, social inclusion, bio-diversity)?



## Conclusions

- rege Diskussion zum PED/PEQ Framework
- Detailliertes Feedback aus den Gruppenarbeiten wird analysiert (gemeinsam mit Feedback anderer europäischer Länder), neue 2. Version Anfang 2020







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<https://setis.ec.europa.eu/>



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