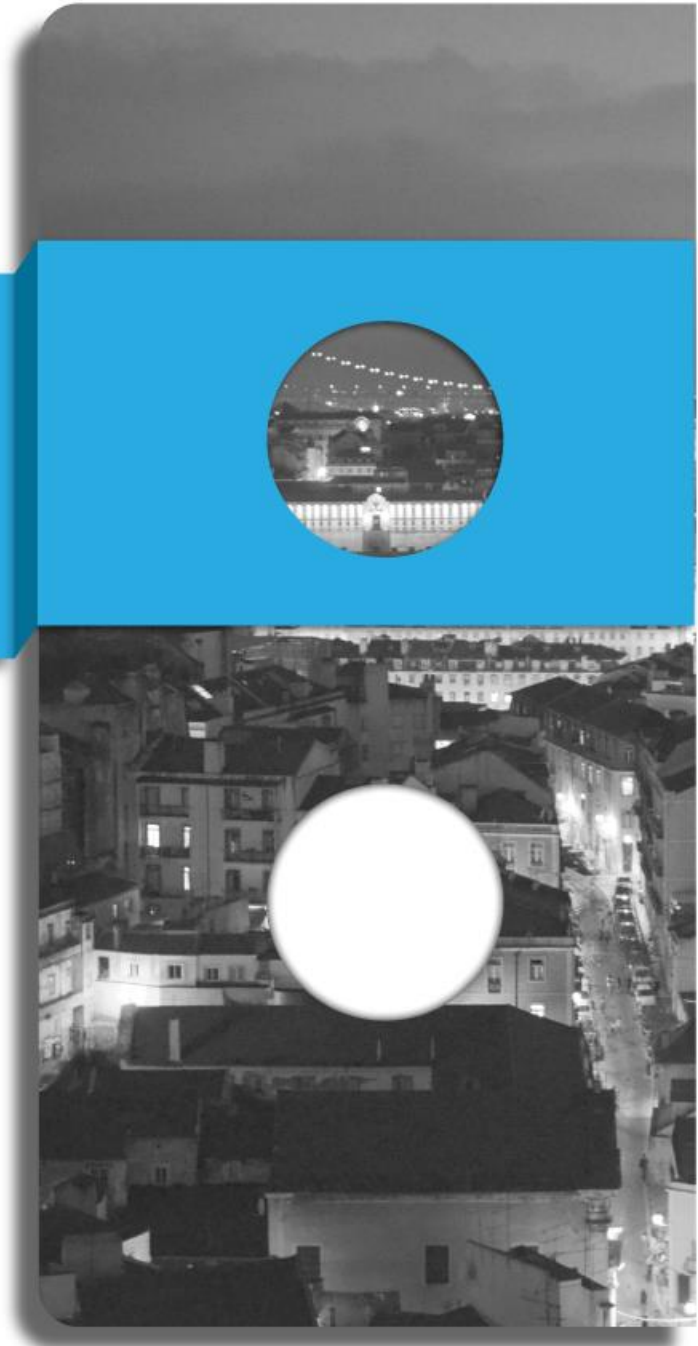




# Breaking the barriers for resource access between markets

Jan Segerstam, Development Director, Empower IM Oy



# DOMINOES

Working together, discovering together  
Enabling new markets past 2020



## DOMINOES – breaking the barriers for resource access between markets

- A different kind of market development project, interoperability instead of local optimization
- From centralized markets to internetworked communities, a challenge for the market mechanism
- Local markets, scope and liquidity
- Local markets, universal applicability of resources
- Challenges being addressed in the project

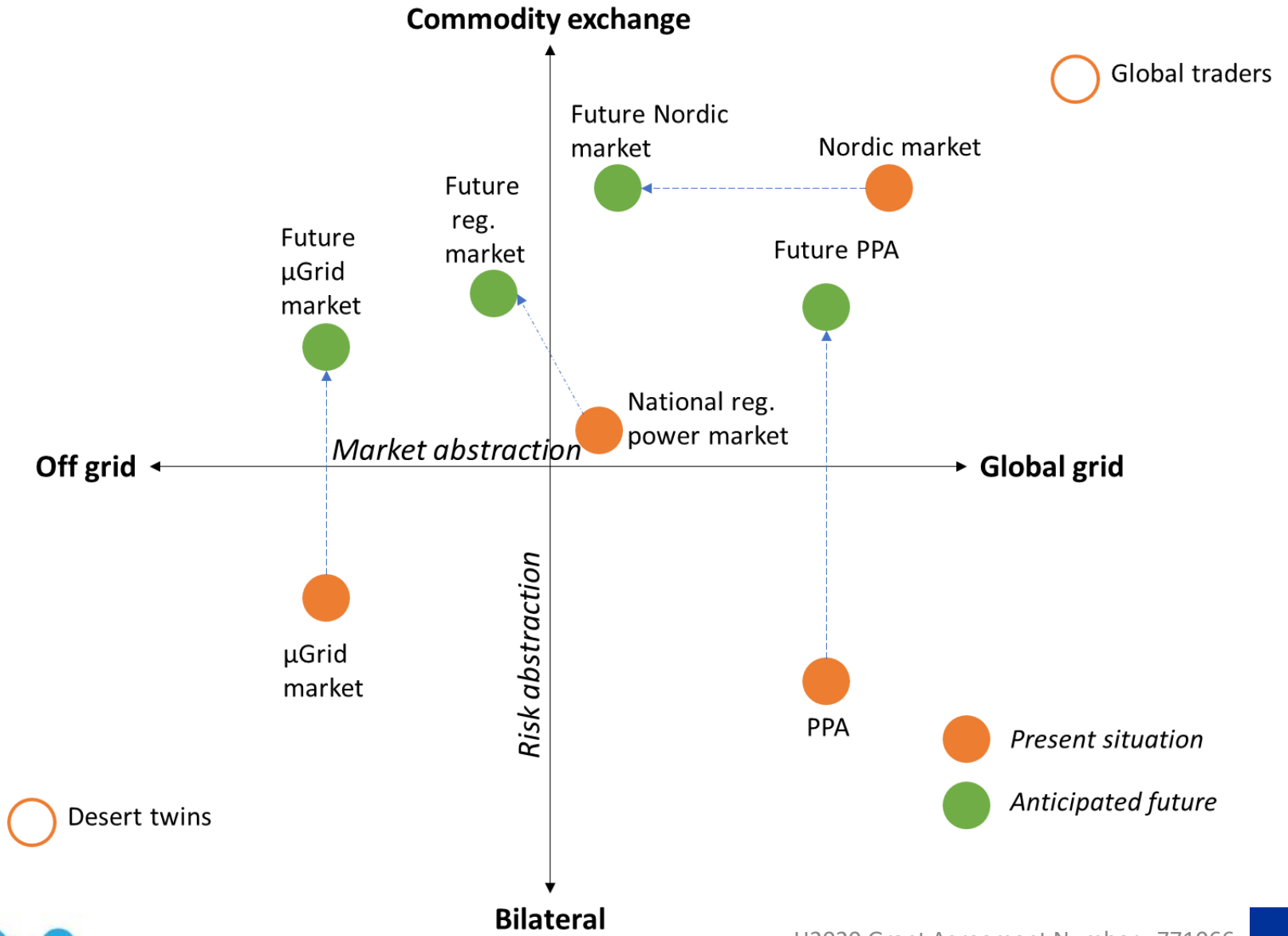
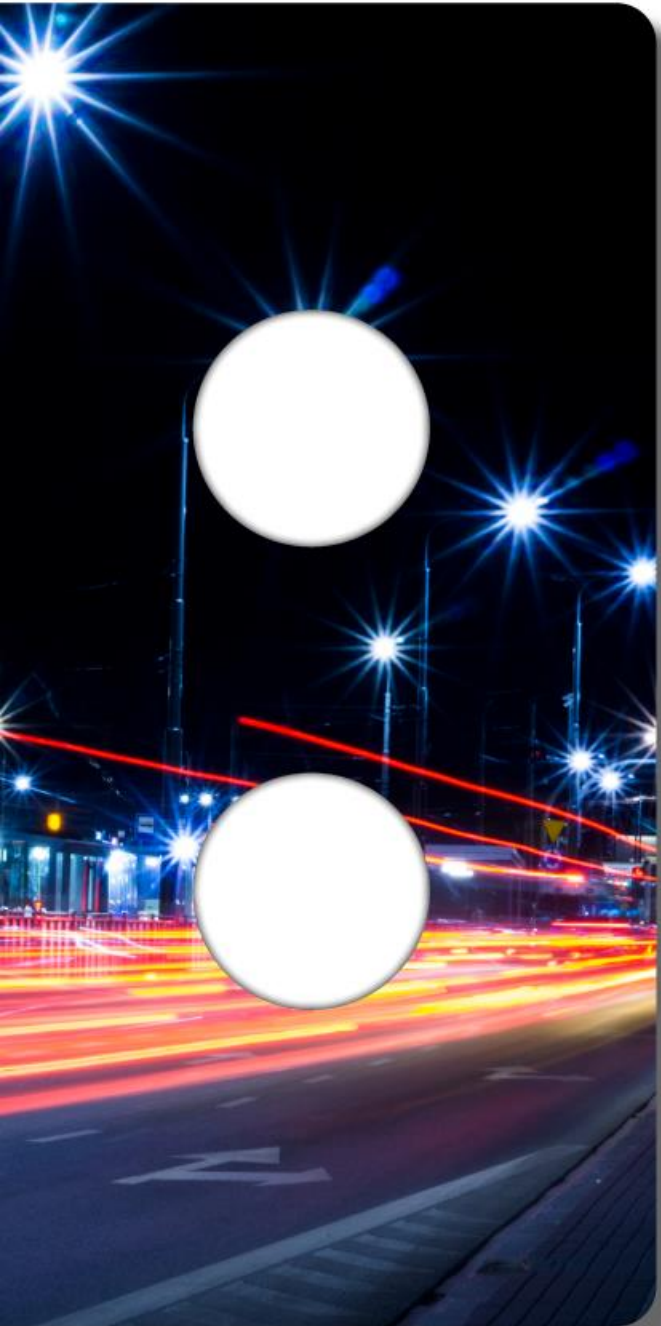


## DOMINOES – why?

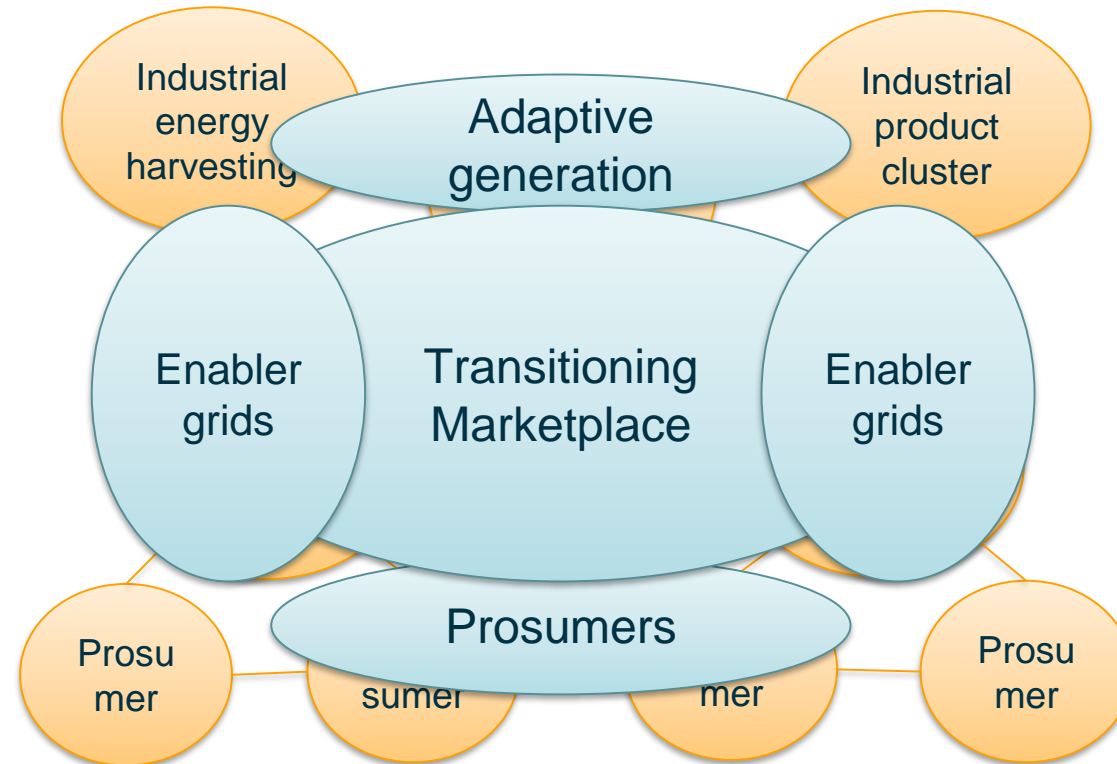
- DOMINOES enables local markets to evolve so that all resources can access all levels of value sharing
- Local markets are appearing
- The energy system is in flux
- Without proper market design, value will be lost and resources wasted







# The Future Energy System



Traffic left out for clarity



Energy is extracted from renewable sources by prosumers and industrially managed sites like wind/solar farms close to controllable loads and connected to dynamic groups to balance needs and overproduction

Network costs are balanced across shared infrastructure and dynamic groups based on actual network needs

Regulation opens access to common infrastructure and allows distributed allocation of resources while promoting open markets on all levels



# Challenges to tackle

Economic regulation of networks?

Changes in regulating power markets and balance settlement?

Pricing and service models for end-users?

Rise of PPAs?

What will be the main product: energy or flexibility?

Clearing of transactions in microgrids?

Risk management?

Financing of new investments?

P2P?

Enabling joining and leaving energy communities?



## DOMINOES, The Next Phase

- DOMINOES is entering a new phase
  - Initial work has been done
  - Now market models and structures underneath are being developed and challenged
- DOMINOES is about the future
  - We break barriers and enable new business
  - We discover the ways to make our common market work from the ground up, making the best use of available assets from grids to technologies







**dominoes**  
market driven distribution grid