



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



Ministry of Trade & Industry
وزارة التجارة والصناعة



GEIPP

GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME



Schweizerische Eidgenossenschaft
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Eco-Industrial Parks Policy Framework Development Workshop

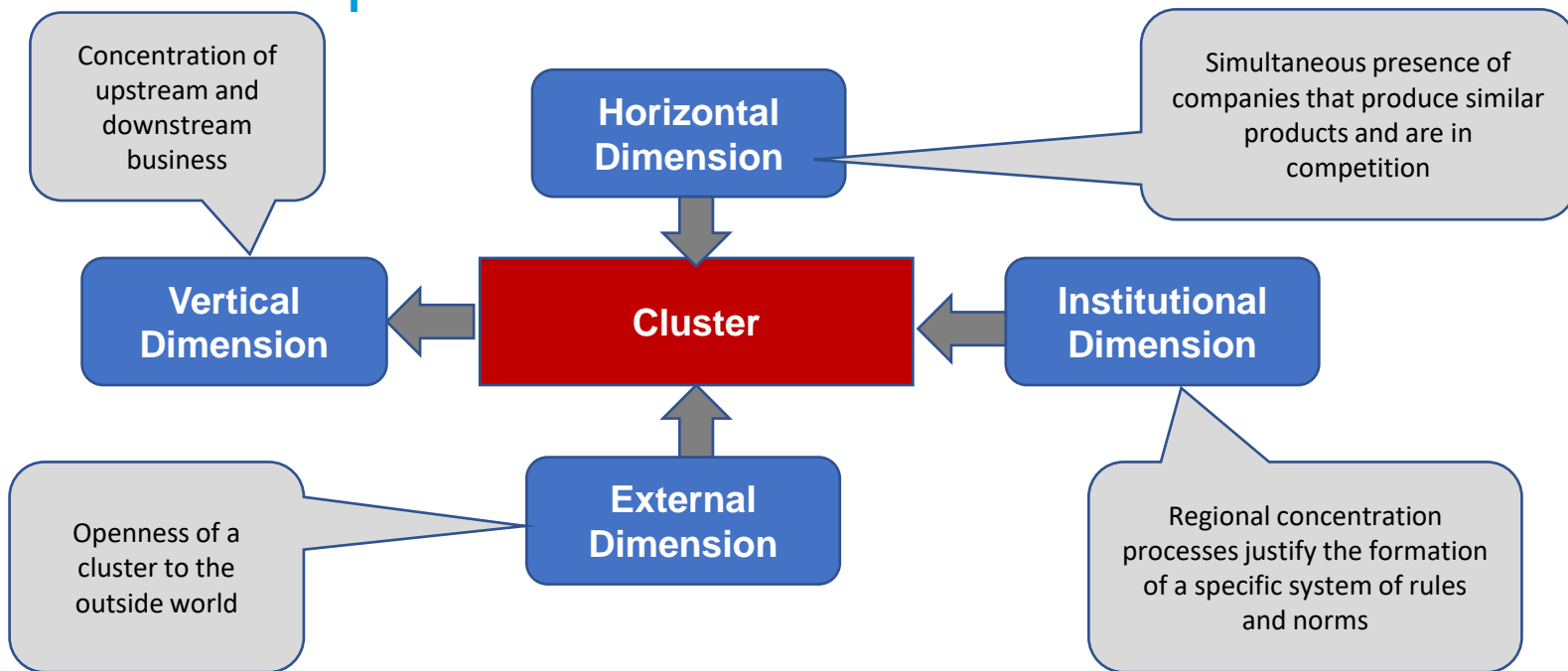
Cairo, 30th of May, 2023

Modern Concepts and Trends in Industrial Parks Management and Industrial Development

Megatrends Leading to EIP

Michael Weber
Weber Sites Consulting

Cluster-based Management Approach of Industrial Park Operation



Cluster-based Management Approach of Industrial Park Operation



Role of park operator:

- ✓ Park operator - “Hub”
- ✓ Facilitate cooperation
- ✓ Initiation of networking
- ✓ Coordination of shared services

Characteristics

- ✓ Continuous interconnection between park management, resident companies and service providers
- ✓ no stringent organization

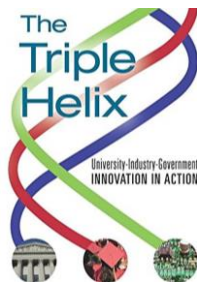
EIP transformation support



Customer orientation → demand fulfilling shared services



Networking for energy efficiency, resource efficiency, waste to energy facilities



“Triple Helix” actors Academia, government, industry

Cluster Governance Model

Steering of industrial park development via Cluster Governance Model (Commitment, Participation, Consensus, Inclusiveness, Responsiveness)



Create linkage between industrial park and regional business environment



Initiation of joint social activities

Twin Transformation of Industrial Parks



Achieving sustainability goals through digitization is already evident in the areas of energy and resource efficiency as well as supply chain management.



Digitization and sustainable business models are considered together on a complete scale

Examples of twin transformation activities are:

IoT sensors for real time data evaluation throughout the supply chain as well as infrastructure and company operations to increase efficiency or reduce utilization of resources



Digital platforms for communication, safety and security, as well as shared services



Virtual visualization and design tools



Just Transition of Industrial Parks

With regards to climate change mitigation, just transition for industrial parks can be defined as follows:

"A set of principles, processes and practices that aim to ensure that no people, workers, places, sectors, or regions are left behind in the transition from a high-carbon to a low carbon economy."



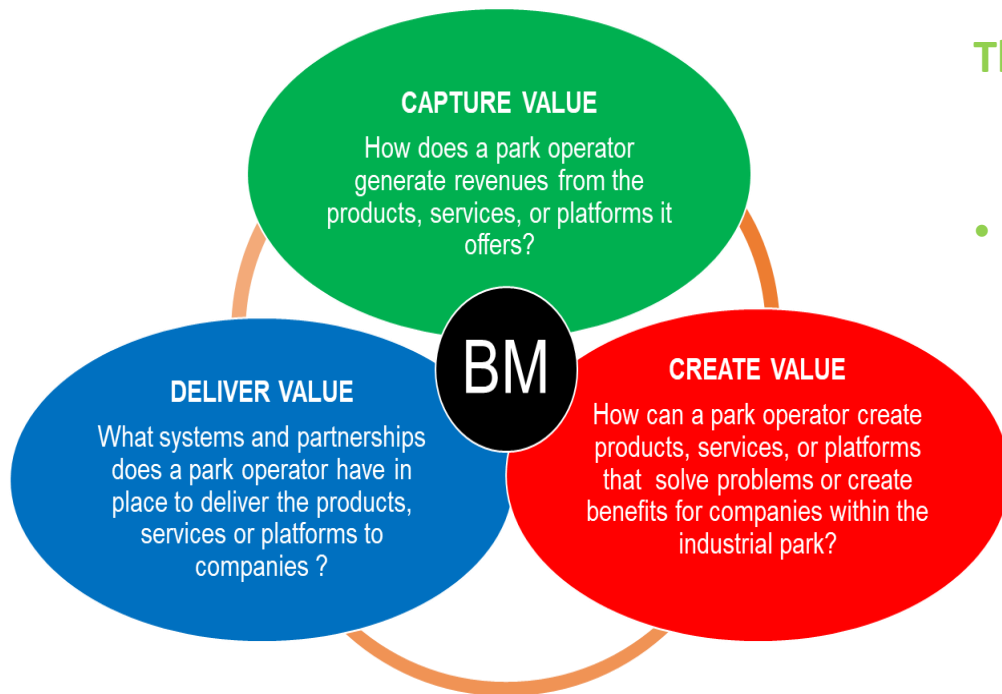
- ✓ Just transition offers the opportunity to **solve three key challenges** at once:
Climate change, growing inequality and **social inclusion**

- ✓ **One example is Industry 5.0 :**

The digital transformation of industries **considering job creation** → **creation of social value**



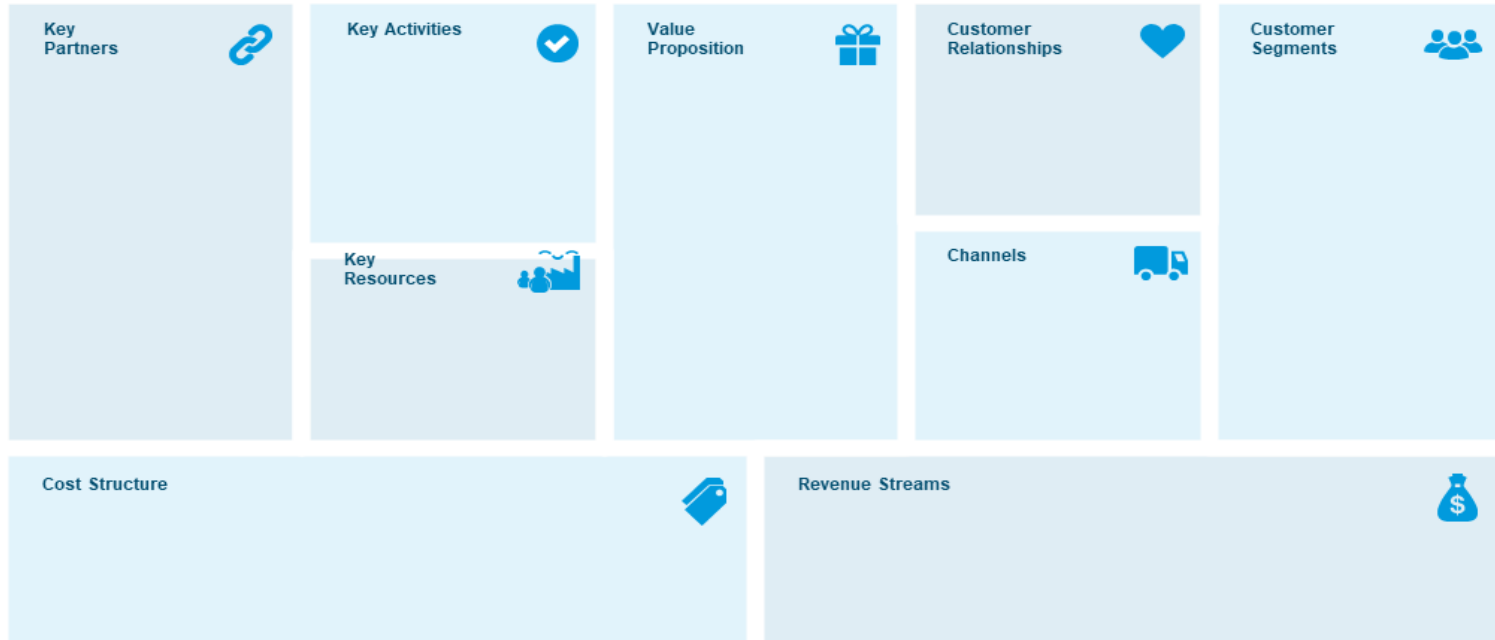
The link for the holistic trends for Industrial Park operation – Business model



The three components of a Business Model for Industrial Park Operation

- Value proposition switches from economic values to holistic sustainable values

Business Model Canvas for Industrial Park Operation reflects the holistic objectives of the different transitions





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