

Operado por:



Punto focal The GEF:



Financiado por

Implementado po



Agenda



WP1. 2-hour online seminar on International Best Practices for the establishment and management of sustainable industrial zones

On the basis of existing material and international experiences developed by international organizations, prepare a 2-hour high-level seminar for government officials and private sector representatives (directors, managers). The seminar aims to raise awareness on the best international practices for the establishment and management of sustainable industrial zones. The material to be used should include presentations, practical cases and examples. The contractor shall present a seminar concept note one week before carrying it out..

	Time slot		Activity/ Session	Expert	Interpretor
22.06.2021	09:00 -09:20	Welcome	Welcome and overview of ZIS Peru	Marianella Hernandez Vlademir Lozano	N/A
2,h ca. 46 participants	09:20 -09:40	Part I - SIZ Global Best in Class	Introduction to SIZ in global context including rating and standards	Thomas Kraubitz	Laura Geissinger
	09:40 -10:10	Part II - SIZ Signature and USP	International Best Practice on SIZ, drivers, unique features/ signatures	Thomas Kraubitz	Laura Geissinger
	10:10 -10:40	Part III - SIZ Carbon and Payback	ZIS in context to Carbon Management, Costs and Payback periods	Thomas Kraubitz	Laura Geissinger
	10:40 -11:50	Part IV - Game of Zones	Game of Zones as tool to drive SIZ projects	Thomas Kraubitz	Laura Geissinger
	10:50 -11:00	Close Out by UNIDO / QA	Moderated discussion and Close Out	Marianella Hernandez	Laura Geissinger



Welcome

09:00 – 09:20

BURO HAPPOLD

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Buro Happold – One diverse team of Engineering enthusiasts with a green and smart spin that over the last 40 years has become synonymous with the delivery of creative, value led building and city solutions for an ever changing world. Working out of 26 locations worldwide with close to 2000 people.







































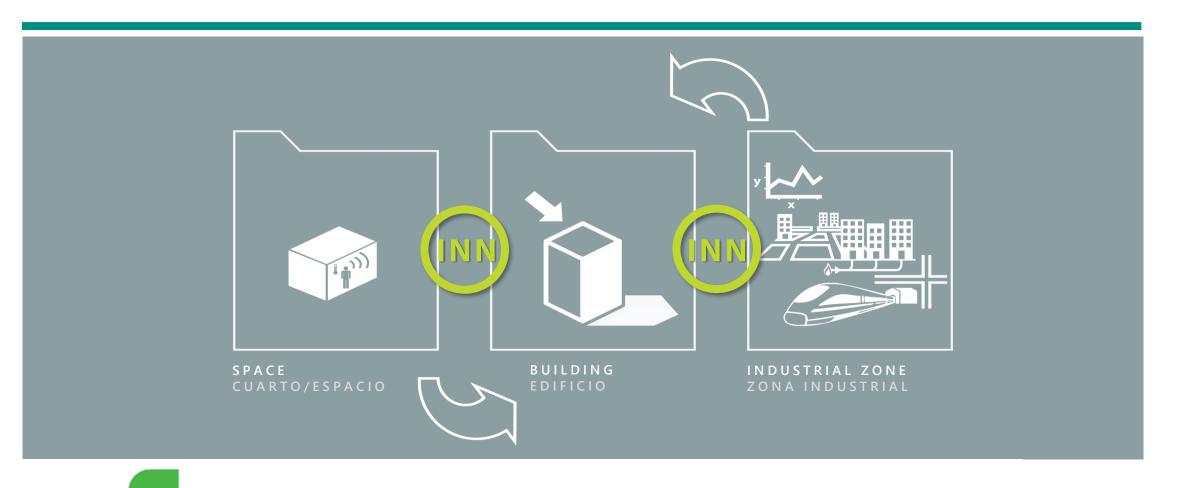
Part I – SIZ Global Best in Class

09:20 - 09:40

BURO HAPPOLD

SCALE





Combined International Framework



An international framework for eco-industrial parks v2.0.pdf (unido.org)

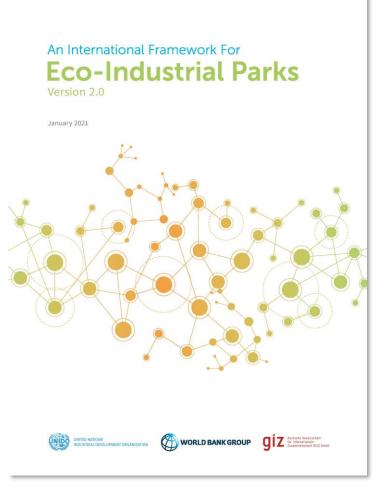


A Common Understanding of Eco-Industrial Parks



Thomas Kraubitz of Buro Happold reviewed v1.0 of that joint document





Combined International Framework



An international framework for eco-industrial parks v2.0.pdf (unido.org)

Institutional and organizational capacity

Description: There are potentially a large number of internal barriers, one of the most important being technical capacity.

Barriers:

- · Lack of internal resources and technical workforce.
- Lack of motivation for continuous improvements in moving toward an EIP.
- Lack of experience in dealing with developers and authorities.
- Lack of capacity for energy conservation and pollution prevention, or awareness of their cost saving potential.
- · Lack of stakeholder communication channels.
- · Lack of management resources.
- · Lack of indicators and guidelines.
- Lack of external support from owners, value chains, communities and international organizations.

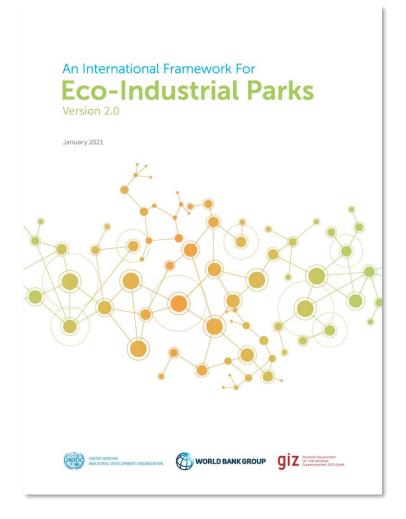
Example Solutions:

Policy makers can:

- Prepare national guidelines and standards for EIPs.
 The performance standards suggested here can help inform frameworks and serve as benchmarks.
- Fund training programs.

EIPs can:

- Examine sector-specific international best practices and adhere to them.
- Develop internal training programs to build human resource capacities, which in turn can provide a competitive advantage.
- Engage with national and regional stakeholders to build confidence in EIPs.
- Engage professionals and/or firms to undertake EIP assessments, site master planning, and so on.



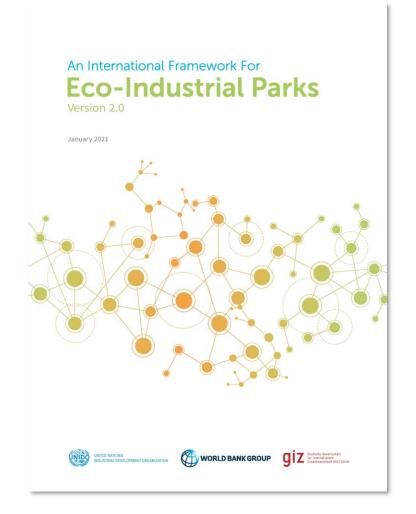


Reference – ALEAP in India



An international framework for eco-industrial parks v2.0.pdf (unido.org)





Reference – ALEAP (Association of Lady Entrepeneurs)



DELIVERING AND GUIDING INDUSTRIAL STRATEGIES AND PLANS



INTEGRATION OF ENVIRONMENTAL PROTECTION AND ITS MONITORING

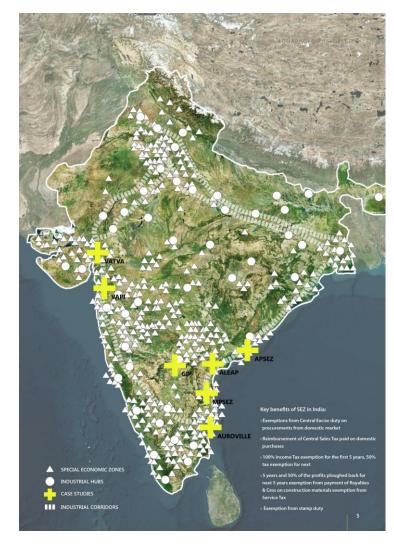


PROVIDING SAFE AND FAIR WORKING ENVIRONMENTS



ENSURING HIGH QUALITY OF PRODUCT AND LIFE

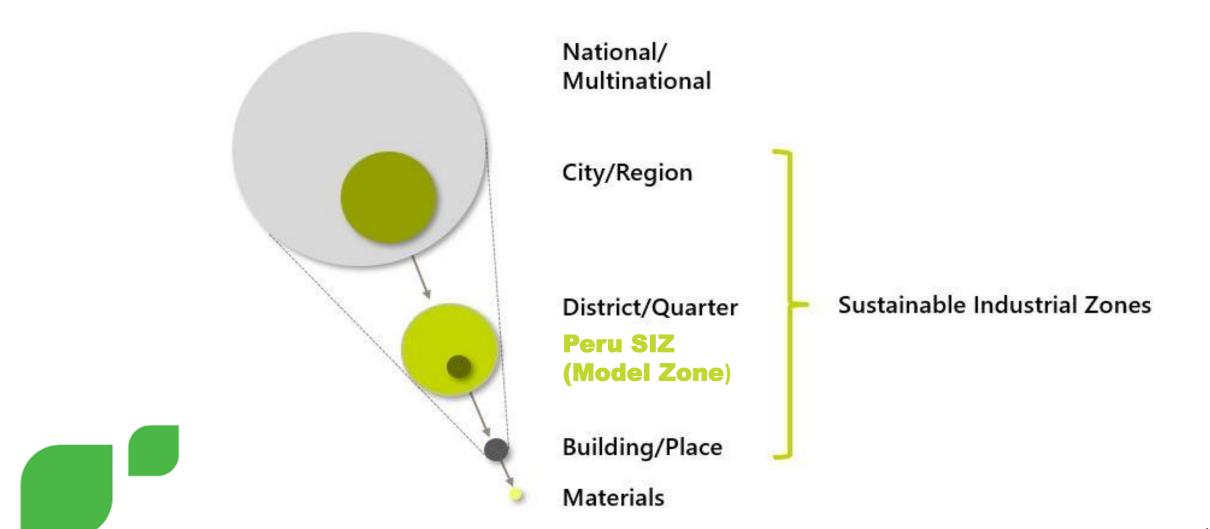






Scale



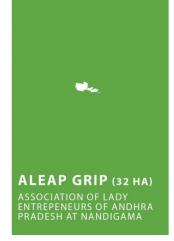


References - Scale - S,M,L,XL,XXL













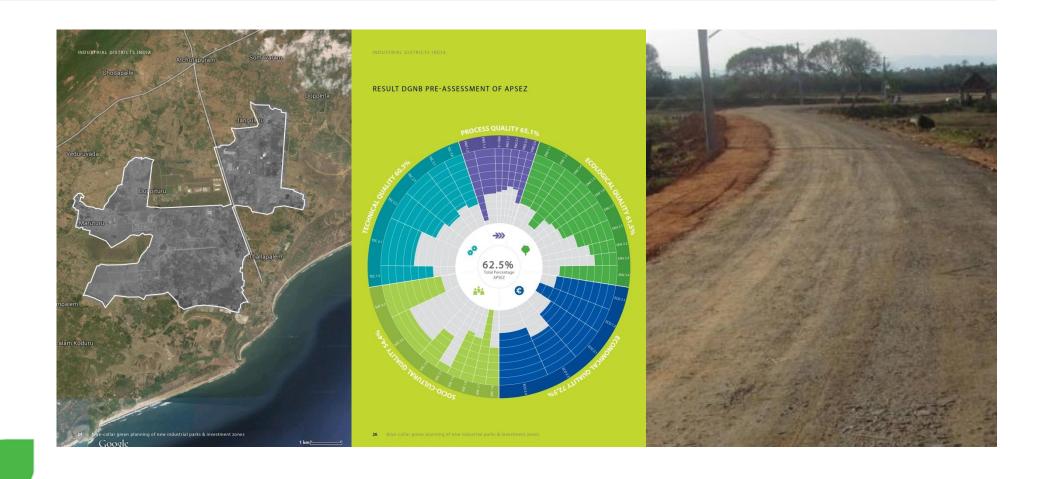






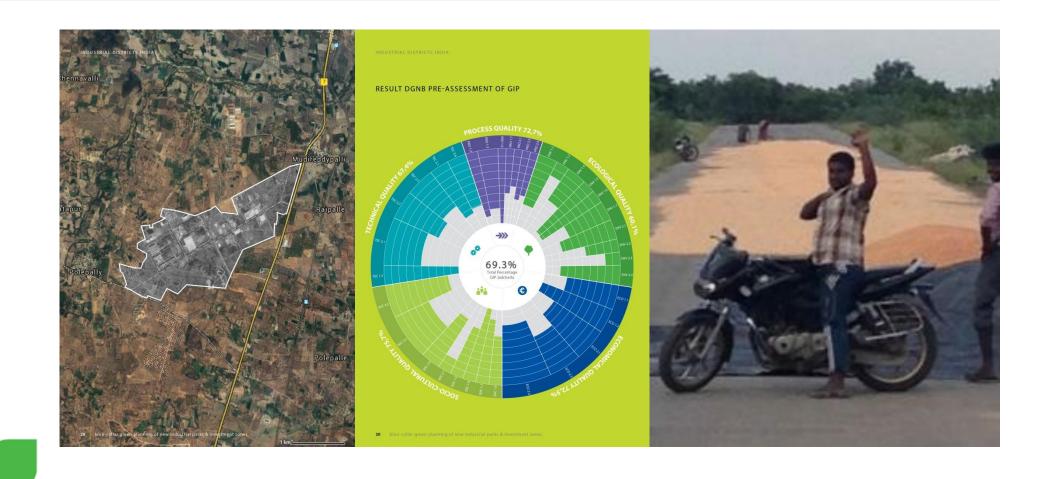
Reference - APSEZ - and DGNB Industrial District Rating





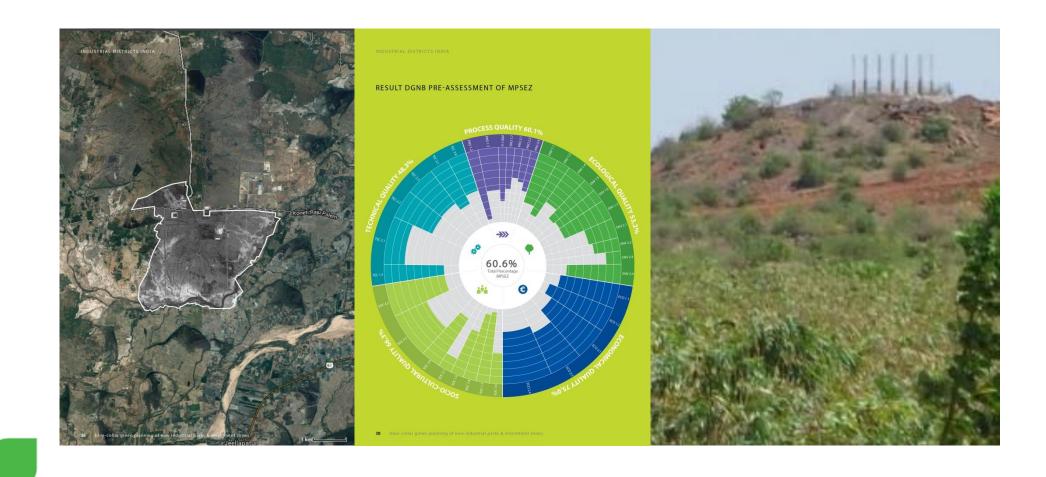
Reference - GIP - and DGNB Industrial District Rating





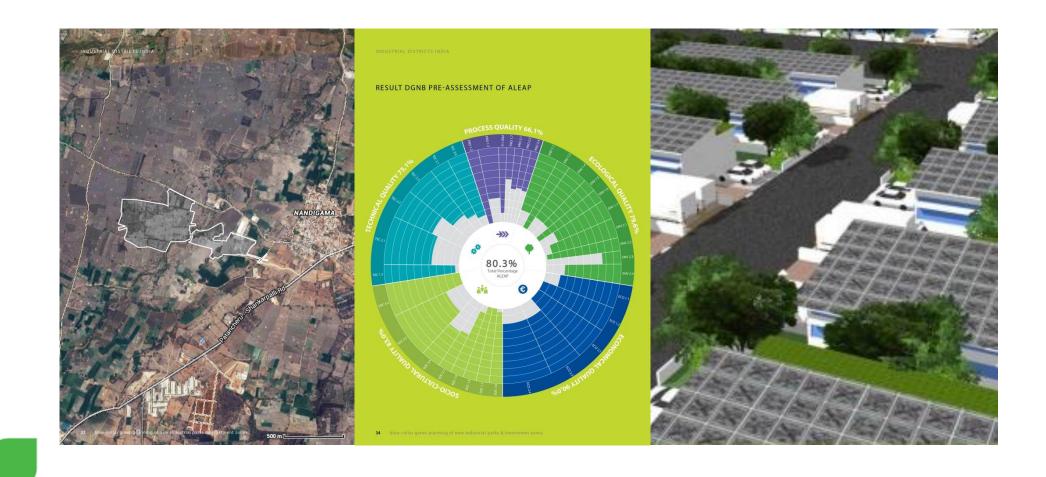
Reference - MPSEZ - and DGNB Industrial District Rating





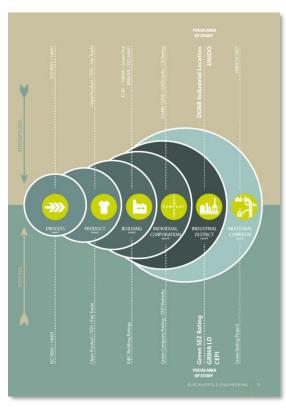
Reference - ALEAP - and DGNB Industrial District Rating



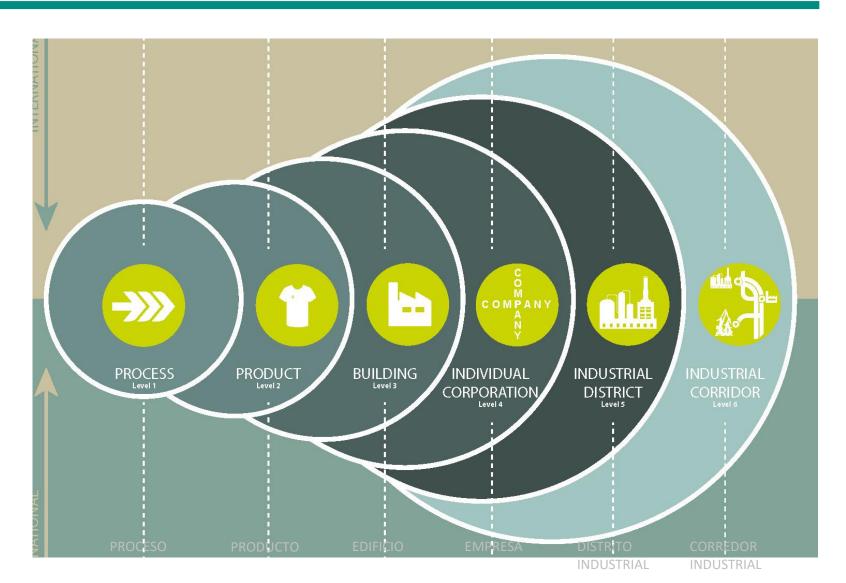


Reference – International Best Practice – work for GIZ













Possibility of evaluation of new, existing SIZs

 Evaluation of open space and some aspects of the building (eg. Pollutants, asbestos)

• Adresses **Industry relevant issues** (eg. energy-efficient production, logistics, emissions, workplace comfort, ...)

- Process Quality consideration
- Life Cycle Assessment/ Costing
- Adaptation to local standards







VOLKSWAGEN Motorenwerk, Chemnitz DGNB Certificate











VOLKSWAGEN Motorenwerk, Chemnitz DGNB Certificate



Attractive open spaces for break (small measure – big impact)









Lune Delta, Bremerhaven DGNB Certificate



S, M, L, XL options for Industries









Lune Delta, Bremerhaven DGNB Certificate



Working with nature









Daimler Evo-Bus, Neu-Ulm DGNB Certificate



Adaptability to demand in space







Part II – SIZ Signature and USP

09:40 - 10:10

BURO HAPPOLD

DRIVERS OF SUSTAINABLE INDUSTRIAL ZONES





Industrial Space ESPACIO INDUSTRIAL

A thriving economy + historically low interest rates are driving housing demand in major cities and metropolitan areas, reducing space for

Industrial Zones close

to cities.



Mobility & Logistics MOVILIDAD & LOGISTICA

Dieselgate is promoting environmentally friendly logistics and mobility (geared towards freight, public transport, e-mobility, cycling, on foot). New logistics. Industrial Zones with intelligent mobility



Energy Transition

ENERGÍA SOSTENIBLE

Energy transition from fossil / nuclear to renewable energies.
Decentralized energy concepts at the Industrial Zone level for a clean and environmentally friendly, almost zeroemissions city.



Digitalization

DIGITALIZACIÓN

Sustainable Industrial Zones are in need for more digital solutions. Real estate industry is taking the first steps towards "smart" in order to become integrated and digital, Industries need to follow



Climate Change

CAMBIO CLIMATICO

Climate emergency and related public interest in e.g. CO2 emissions. UN climate protection goals and the 2030 Agenda as clear signposts

Integrated, data-based Sustainable Industrial Zones

DRIVERS OF SUSTAINABLE INDUSTRIAL ZONES





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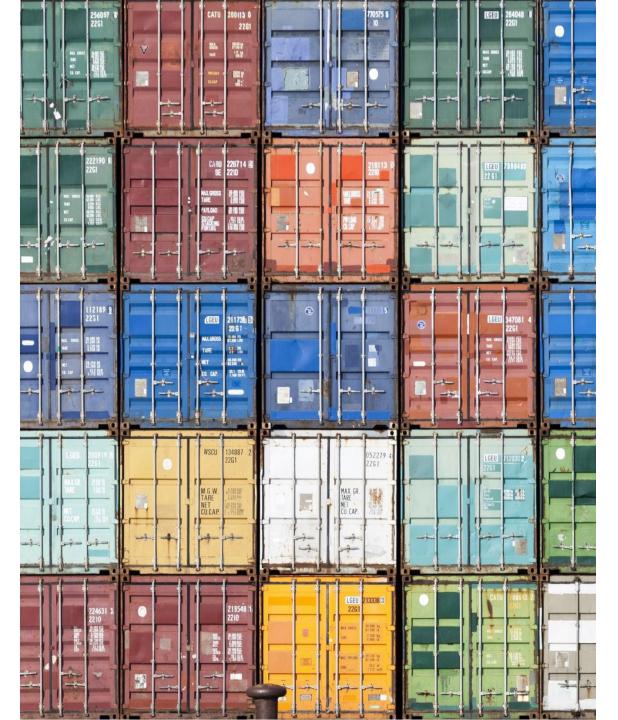


Logistic concepts

12th of May 2021

Report

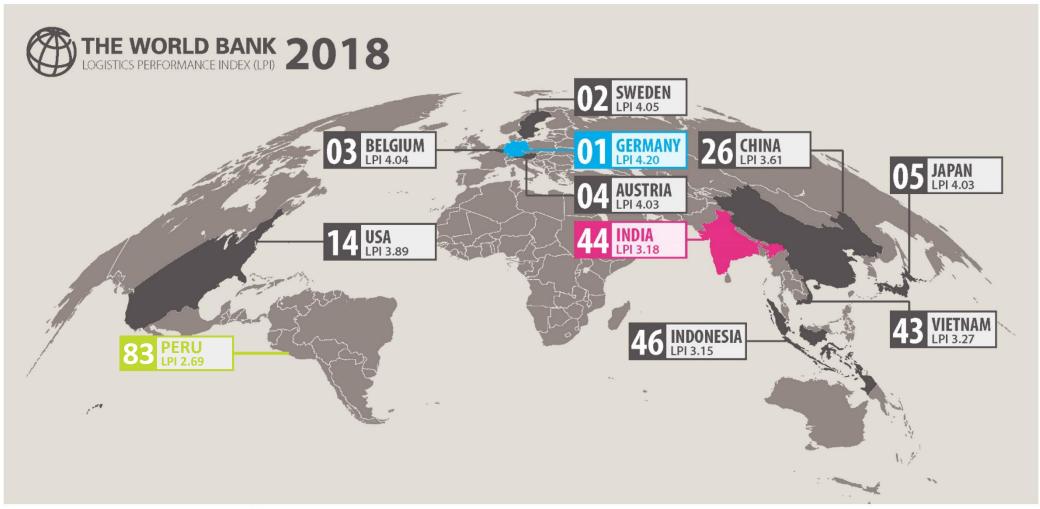
Version 01





Introduction







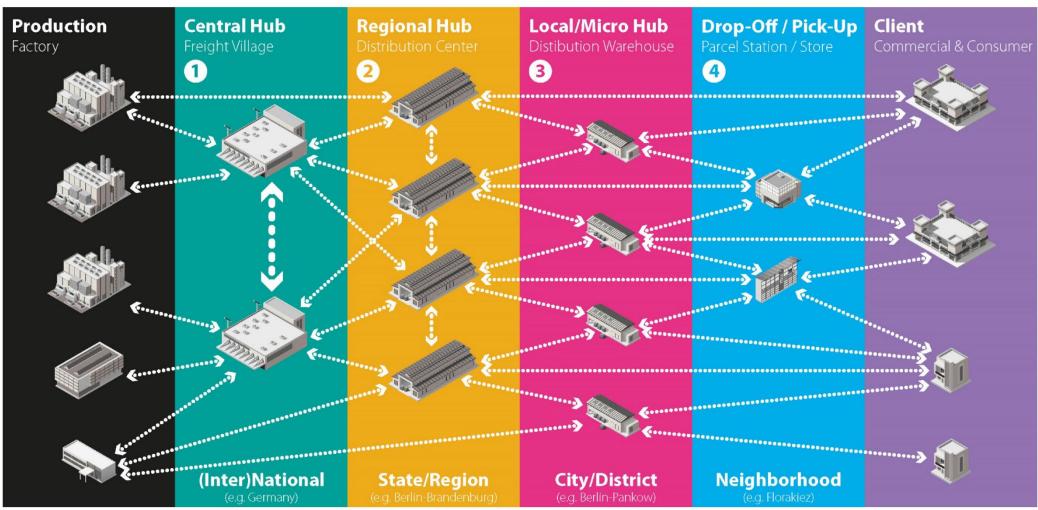




Logistics in Europe



Logistics networks – distribution systems

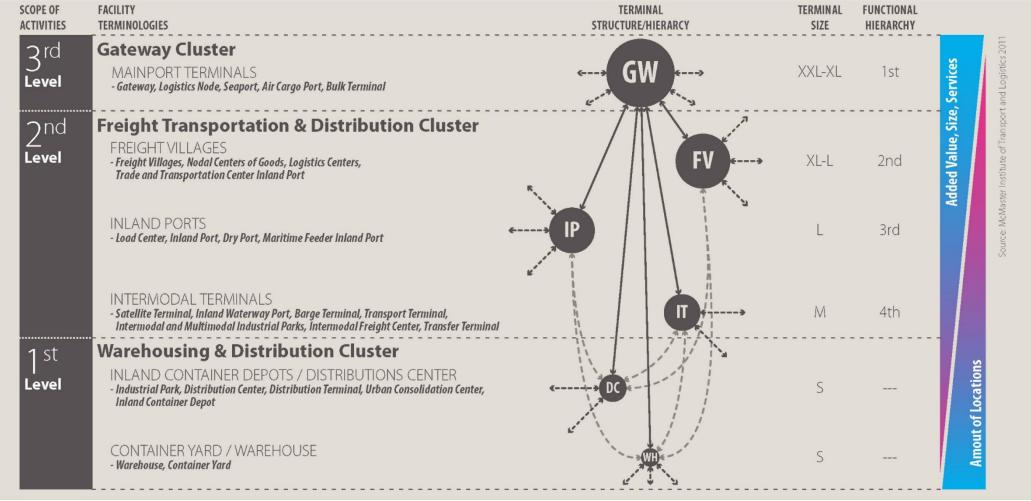




Logistics in Europe

ZIS PERÚ

Logistics networks – logistics hubs





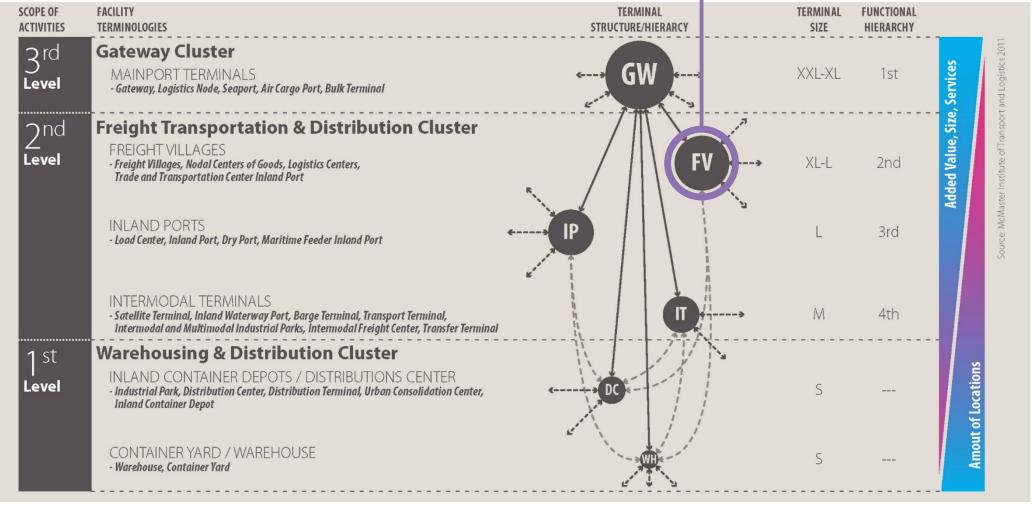


Freight Villages

FREIGHT VILLAGES (FV)

Backbone of German/European Logistics Network











Freight Villages



Definition

GERMAN FV UNDERSTANDING



...is a commercial construction area where transportation-related businesses, logistics service providers, service facilities, and logistics-intensive industrial are located



...should include a **transshipment terminal** that offers free access for everyone (can be located nearby)



...needs an establishment of suitable forms of organization to explore all synergy potetials

...will reach full efficacy when connected by infrastructure and services with other FV



A **German** Freight Village...

...could be complemented by regional sites to achieve the broadest possible impact (if traffic volume potential justifies it)



...is **connected to multiple modes** of transportation, at least two







Freight Villages

Differences compared to Freight Distribution Centers





Services

- Loading & Unloading
- Sorting & Picking
- Storing & Distribution
- Transshipment
- Complementary Services
- Multiple Service Provider

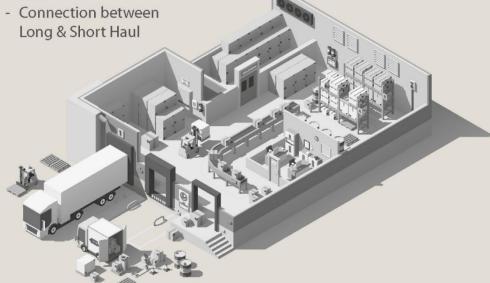
Characteristics

- Large plots (up to > 100 ha)
- always intermodal (min. 2 mods)
- Transshipment Terminal
- Connection between Long & Short Haul
- (Inter-)National level

Freight Distribution Center (FDC)

Focus





Services

- Loading & Unloading
- Sorting & Picking
- Storing & Distribution
- 1 Service Provider

Characteristics

- Large warehouses
- sometimes intermodal
- Regional & Local Level







Freight Villages



Strategic Goals







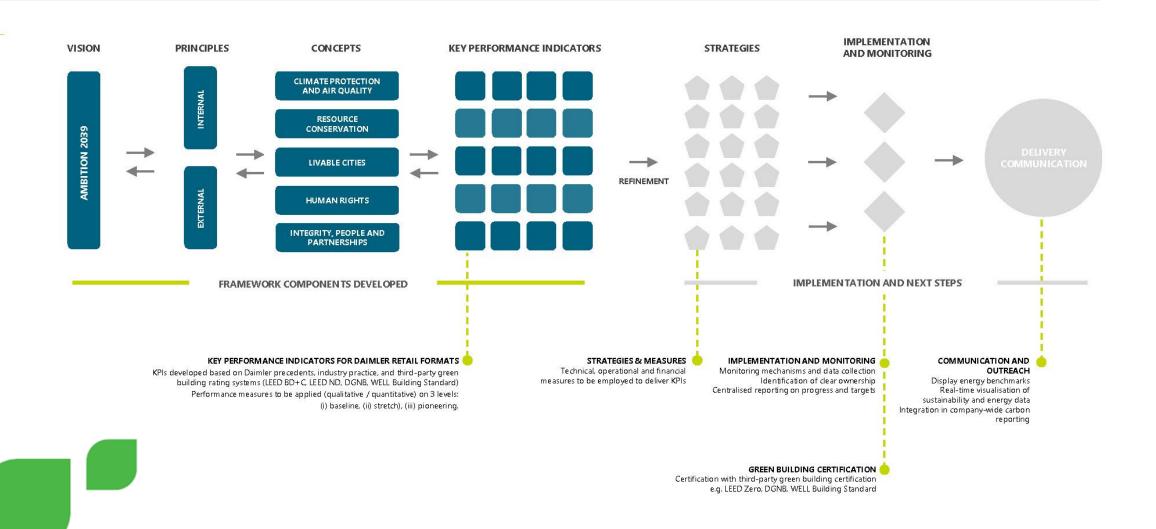
Part III – SIZ Carbon and Payback

10:10 - 10:40

BURO HAPPOLD

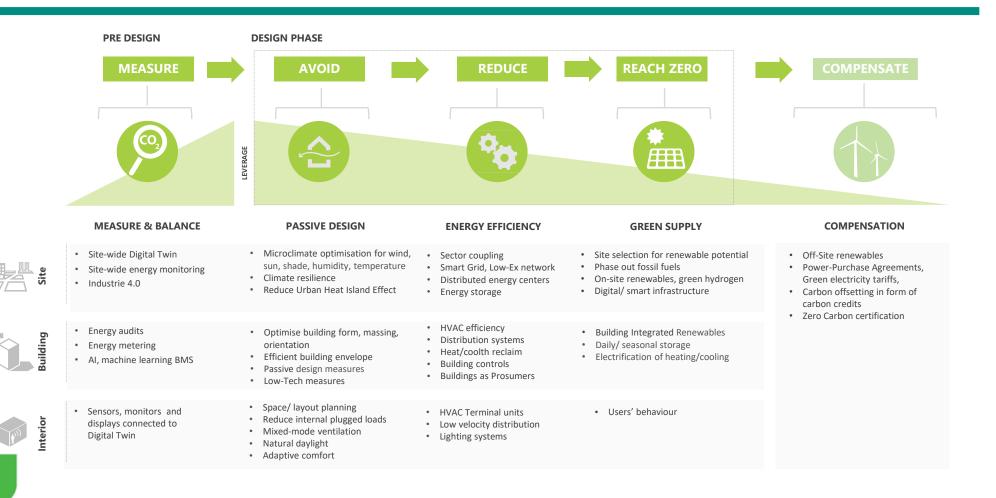
Blueprint Carbon Strategy – example





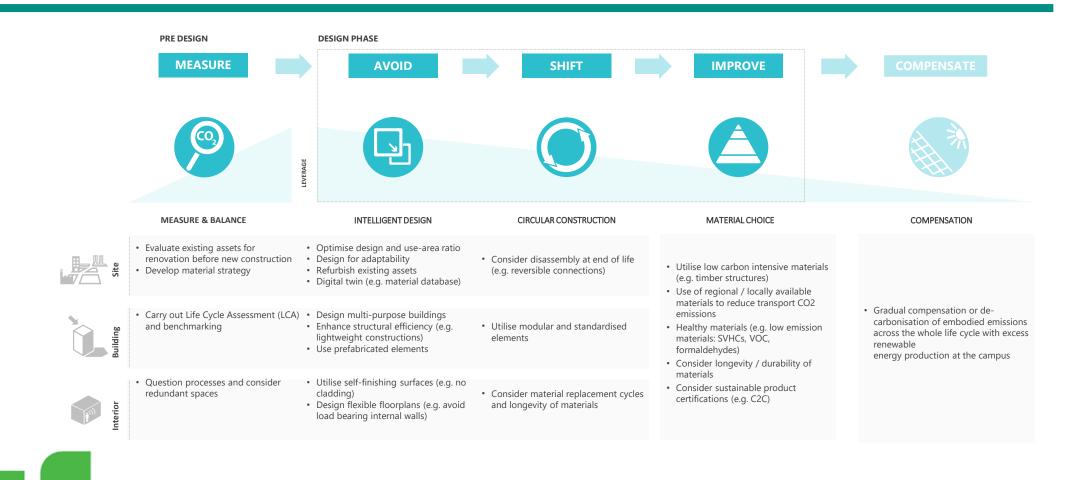
Carbon Strategy for Green Pharma Parc





Material Strategy for Green Pharma Parc





Part IV – Game of Zones

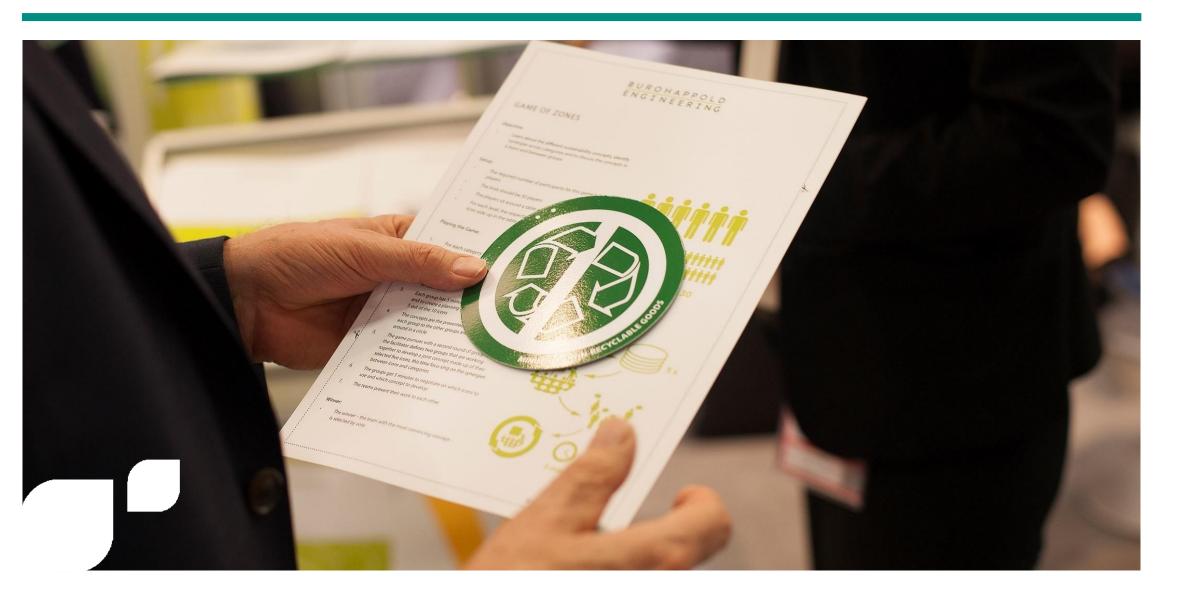
10:40 - 10:50

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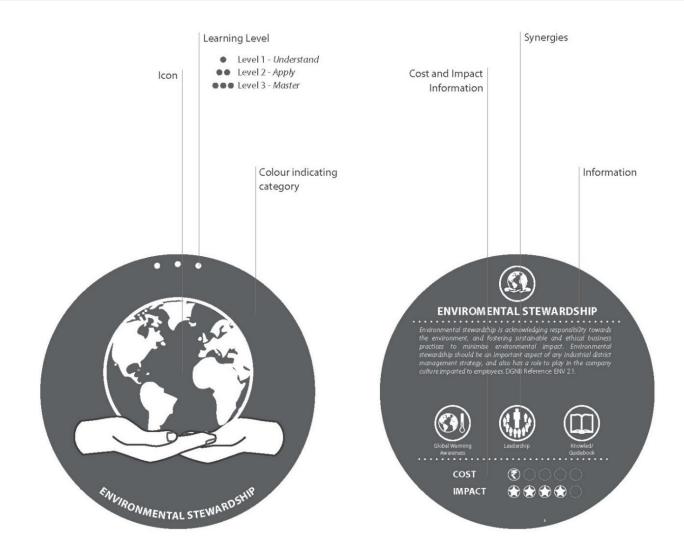










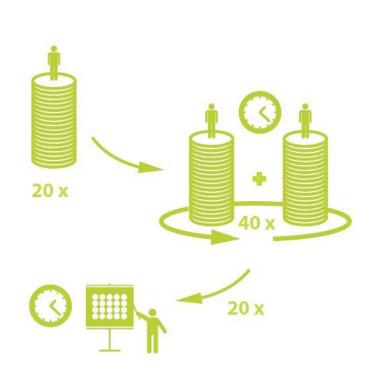


GAME OF ZONES – as decision making tool

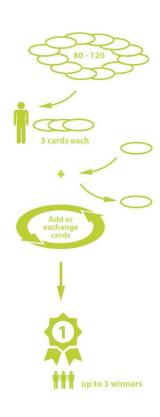








DESIGN YOUR SUSTAINABLE INDUSTRIAL ZONE

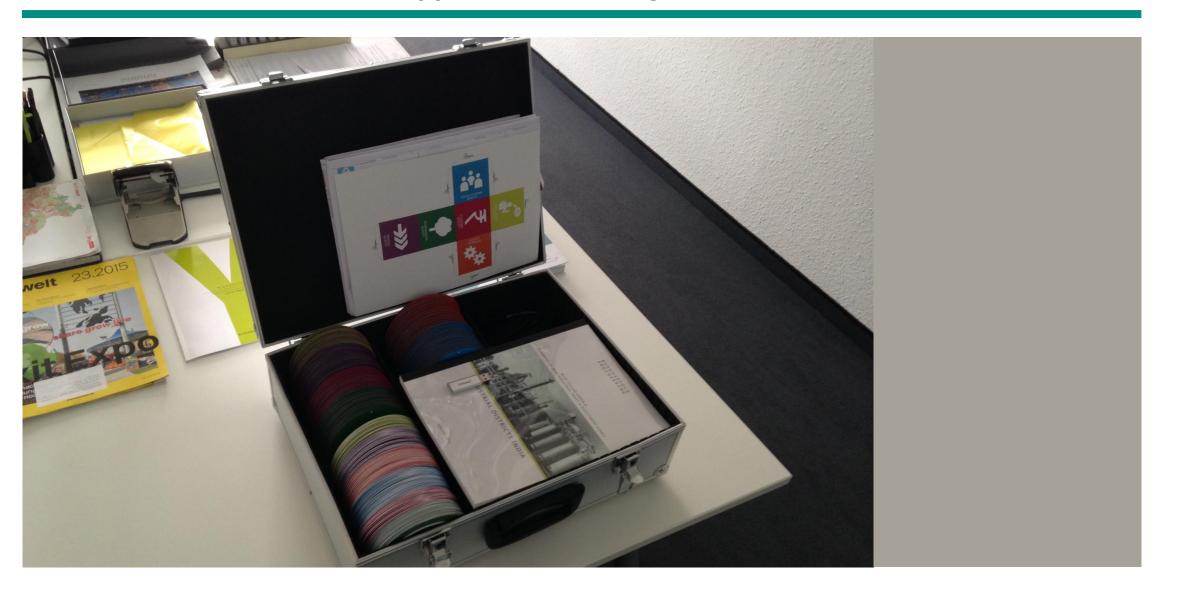


INDUSTRIAL POKER

GAME OF ZONES – Practical Application – 2015 for India

ZIS PERÚ

GAME OF ZONES – Practical Application – 2015 for India



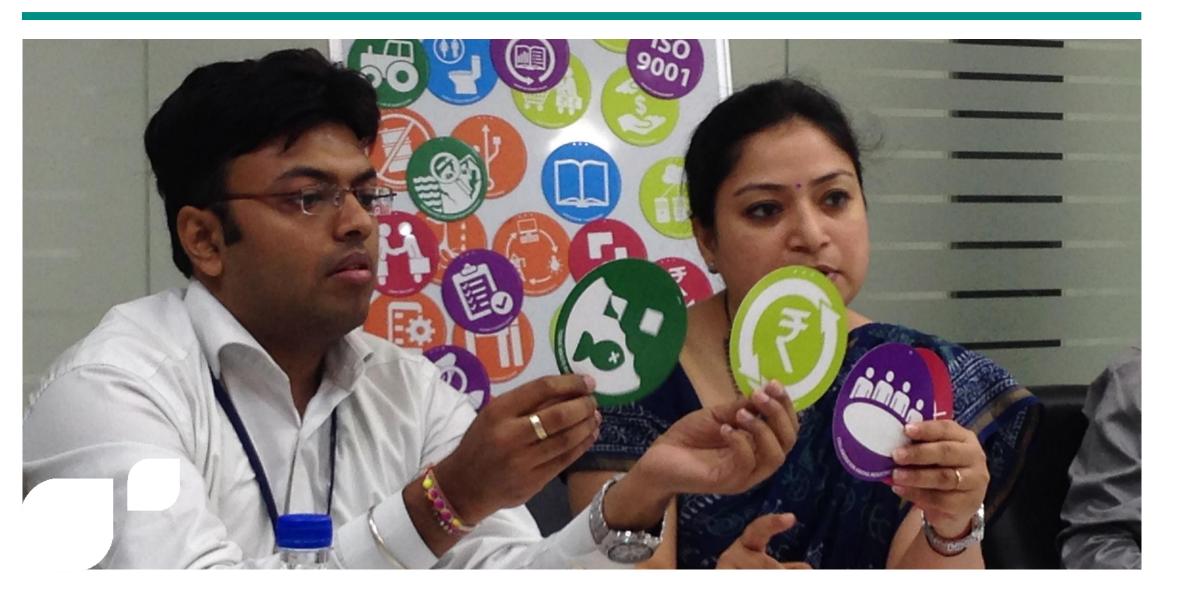
GAME OF ZONES – Practical Application - India





GAME OF ZONES – Practical Application - India













































honest broker



Close Out / QA

10:50 - 11:00

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Shaping Tomorrow!

We'd love to hear from you

Thomas Kraubitz thomas.kraubitz@burohappold.com

www.burohappold.com



Zonas Industriales Sostenibles