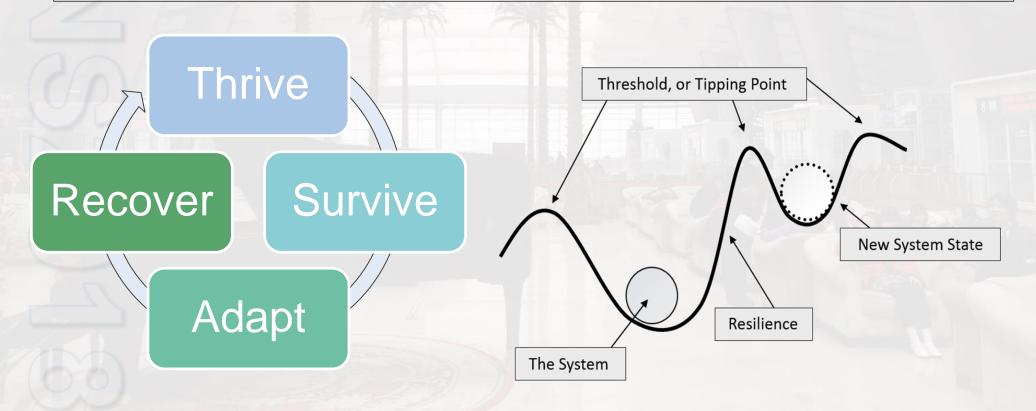


What's Resilience?

Resilience is the ability to absorb disturbances, to be changed and then to reorganise and still have the same identity. It includes the ability to learn from the disturbance. A resilient system is forgiving of external shocks*.



^{* &}lt;a href="https://www.resilientcity.org/index.cfm?pagepath=Resilience&id=11449">https://www.resilientcity.org/index.cfm?pagepath=Resilience&id=11449

Why resilience is required for railway stations?

Challenges



Why resilience is required for railway stations?

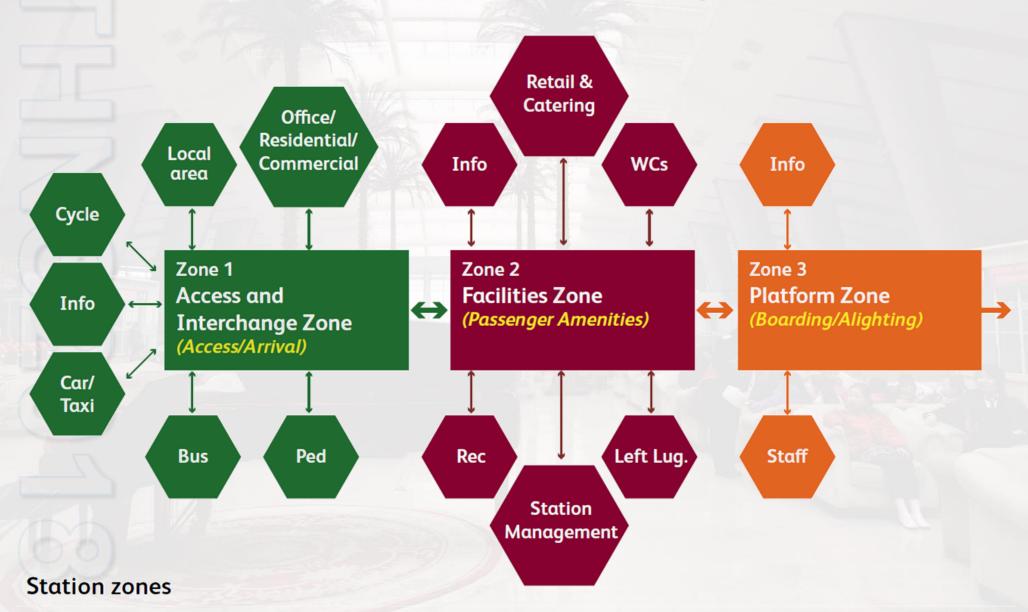
Resilient Railway Stations

Basic functionnalities + Resilient actions + Smart Solutions

Sustainability

Avoid the depletion of natural resources and any form of negative impact (whatever it may be) in order to maintain the ecological balance and integrity of the city and its citizens.

Basic functionalities of railway stations



Resilient actions for Railway Stations

RESILIENT MANAGEMENT

- Readyness for disaster
- Develop fundamentality assessment
- Development of contengiency plan

RESILIENT PASSENGERS

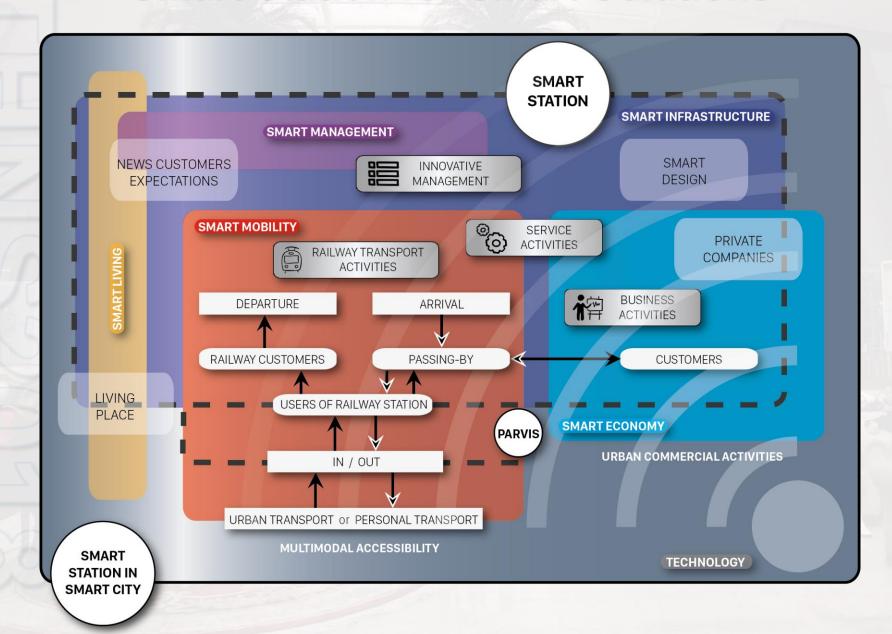
Railway Stations

RESILIENT INFRASTRUC TURE

- Take into account future risks
- Maintain the functionalities of the stations

- Awarness and education
- Approriation of the railway station as a public good
- Defend Railway Stations from incivil act

Smart Station for Smart Solutions



Smart Management

<u>DEFINITION</u> "The process of dealing with or controlling things or people with the new information and communication technology. The manager seeks constantly how improve his process, going beyond "classical" actions to create new opportunities and respond to new challenge".





Smart Infrastructure

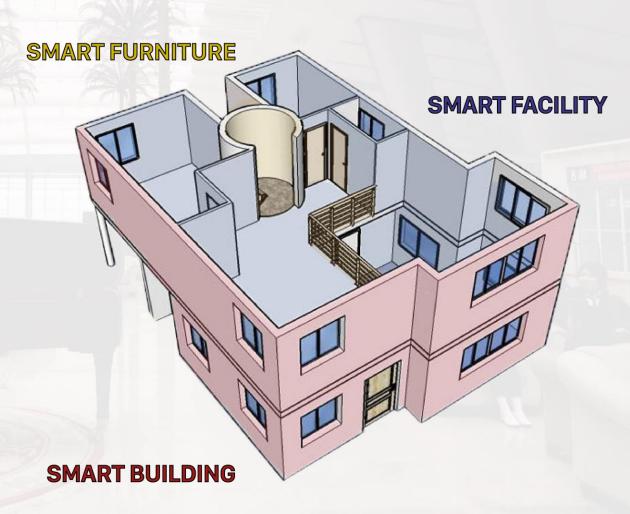
<u>DEFINITION</u> "Adding value, either through improved features, through for example better design or use of new technology".

3 elements of railway infrastructure:

1/ Smart Building

2/ Smart Facility

3/ Smart Furniture

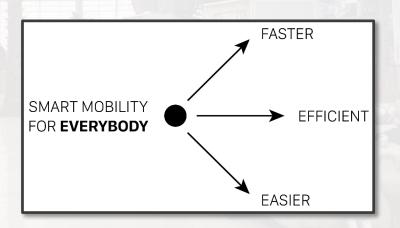


Smart Mobility

<u>DEFINITION</u> "Using new technology to facilitate flows of persons and information in time and space, using smart information and communication infrastructure"

- Smart mobility as key for the new intermodality chain
- Mobility as a service for shared mobility solutions
- Digitalization ticketing system





Provide to people the key of their own mobility in all circumstances

Resilient Stations within Resilient Cities

Keep it minds

City is built by infrastructure, so we need develop Resilient Stations for Resilient Cities.

As railway stakeholders, we can't miss the cooperation with local authorities.

The resilient station, a punctual concept, but whose values must be reflected in the urban and rural landscape of the cities for the coming decades.

One concept = X models

Thank you for your kind attention



谢谢

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