

Parallel Session 7 – Safety & Security



SPINAPP

synergy between
security + energy + environment

methodology and
application



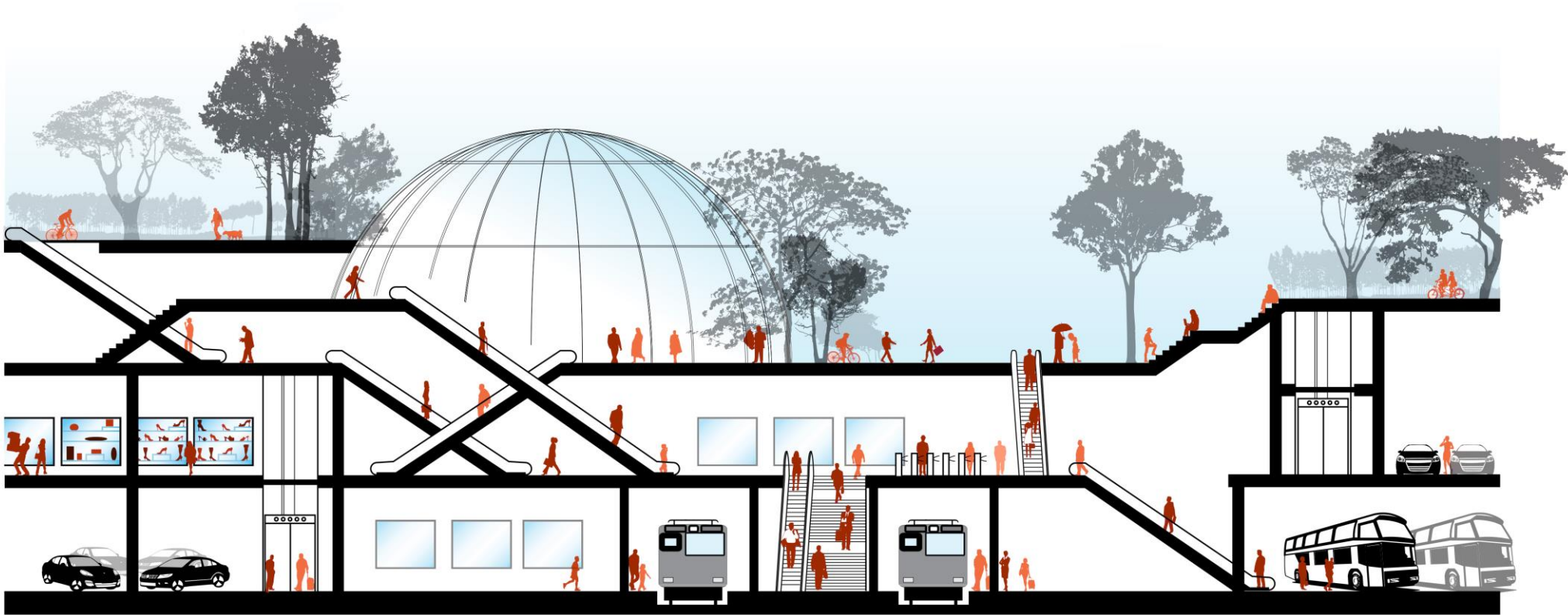
UIC next station
TEHRAN 2019

Anne Leemans

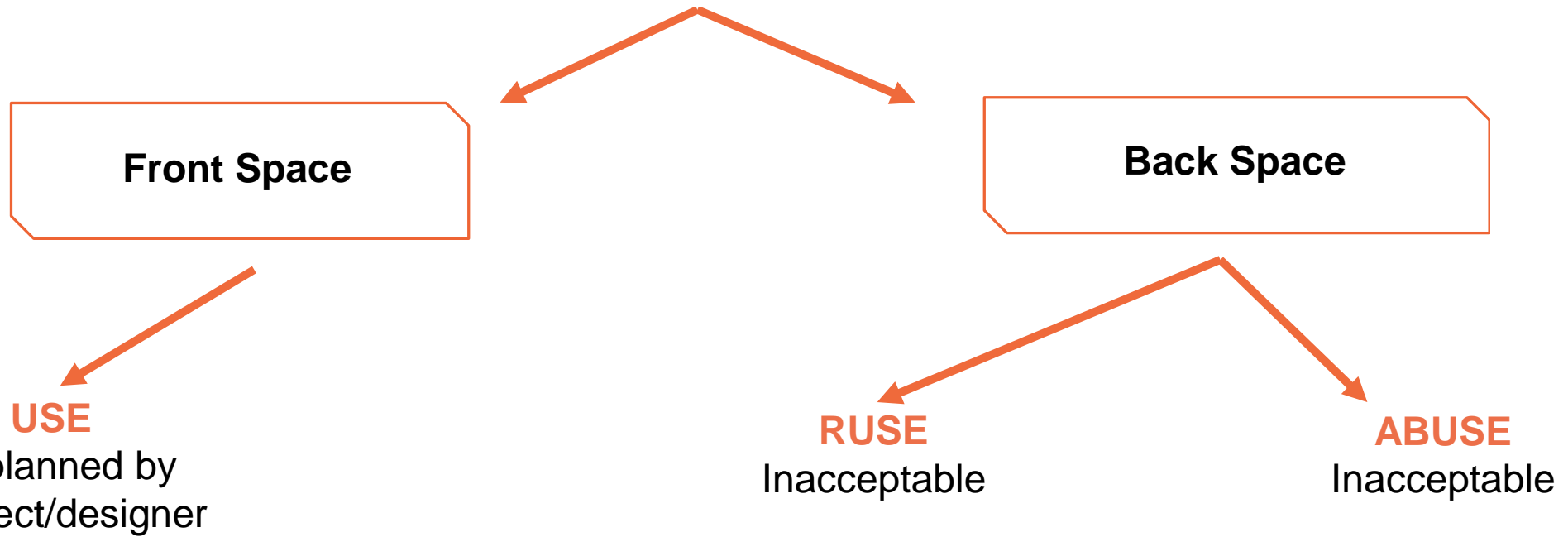
Secretary General

anne.leemans@ydesignfoundation.org

Intermodal, accessible, convenient, sustainable, safe and integrated in urban context



Concept 1: Heterotopia (space)



Concept 2: Authority/operator

Supplier of mobility and community services

- safe and on-time transit
- accessible
- attractive and convenient
- same level of convenience for passengers of all modes
- service level adapted to mode



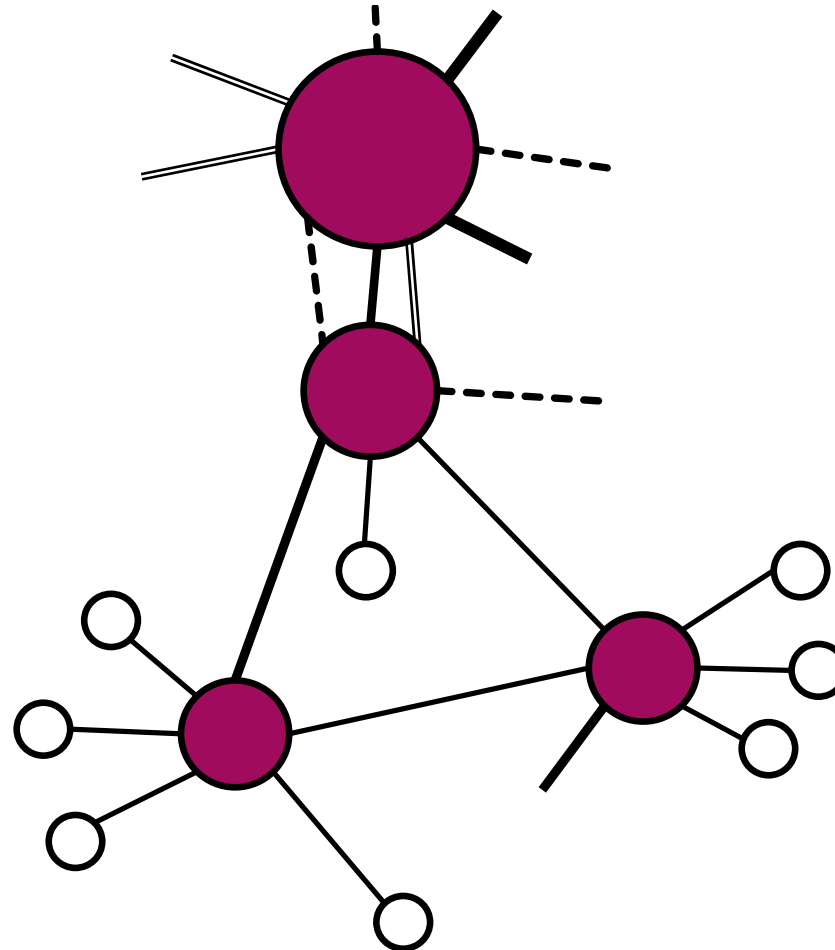
Hierarchy of cities – hierarchy of interchanges

High intermediate :

- a hub for different transport modes on city level
- regional train service
- quality retail
- quality services
- urban station in regional capitals

Basic:

- clean station, well kept toilets, correct service information
- parking lot
- a couple of trains and busses per day
- station in remote areas



Top:

- a hub for different transport modes on regional and international level
- large scale retail
- integrated city functions
- main national and international station

Low intermediate:

- regular train service
- regular bus service
- small retail, cafeteria
- main station in non-capital cities

SPIN APP the start

- Meets passenger expectations from sensorial observation, optimises security, against lowest carbon footprint, improves ROI
- Body of 120 + measurable and monitorable recommendations - international targets and standards
- Focus on renovation and extension of existing stations
- SDG-compliant and TCFD-ready

SDG-COMPLIANCE



TCFD-READY



Climate change + population growth force us to evolve from

- A linear to a circular economy
- Fossil to renewable energy
- Analog to digital communication
- Technologies exist – mind-sets evolve slowly



Objectives

- Prioritise the value of investments
- Maximise security and minimise environmental/energy impact
- Meet expectations of passengers in terms of sensorial observation
- Improve ROI



Sustainable Development

Sustainable development via transversal management between:

- Economic
- Social
- Environmental



The Goal

The goal is to provide:

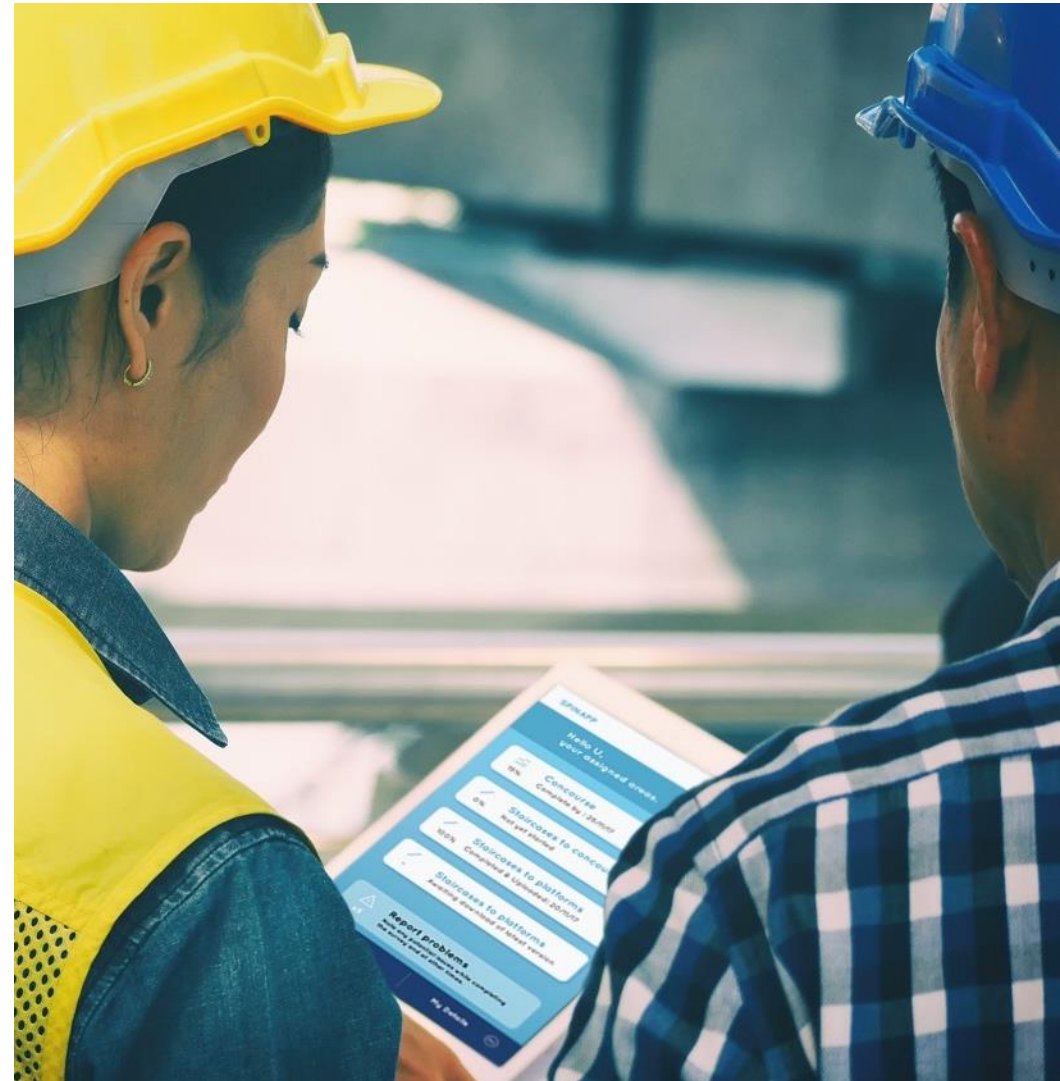
- Optimal security
- Minimal footprint
- Modal use shifting towards 90% soft mobility by 2030



SpinAPP

The Application combines:

- Security
- Energy
- Water & Waste



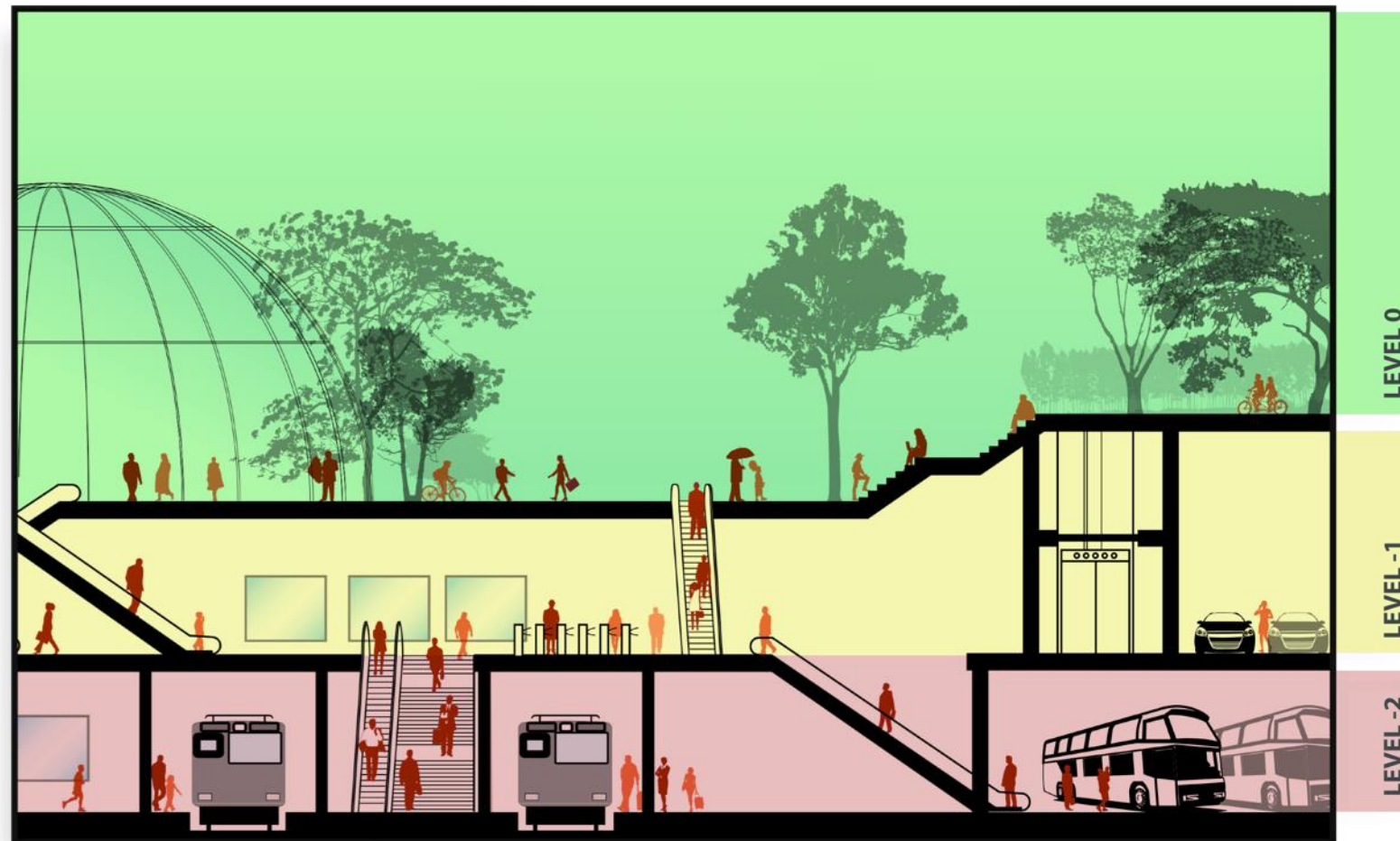
SpinAPP Provides

The goal is to provide:

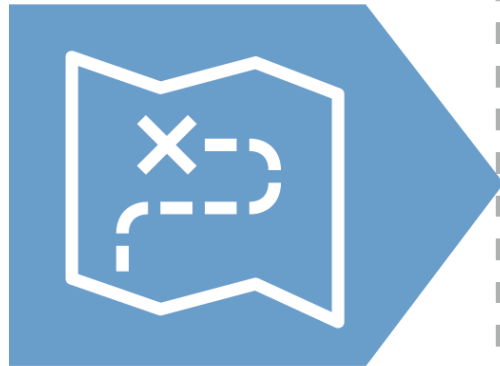
- TCFD-ready data that allows station management to calculate the cost of climate resilience.



Example Station



User Journey



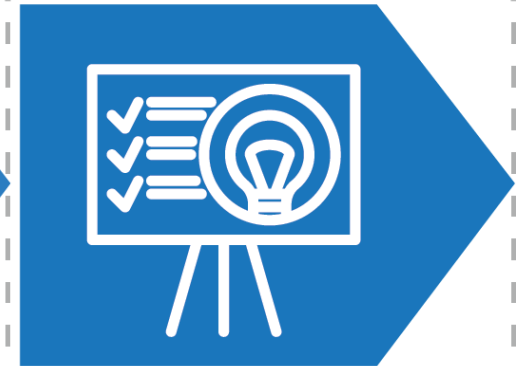
Phase 1
SpinApp Mapping



Phase 2
SpinApp Surveying



Phase 3
SpinApp Report



Phase 4
Further Action Plan

Map Builder

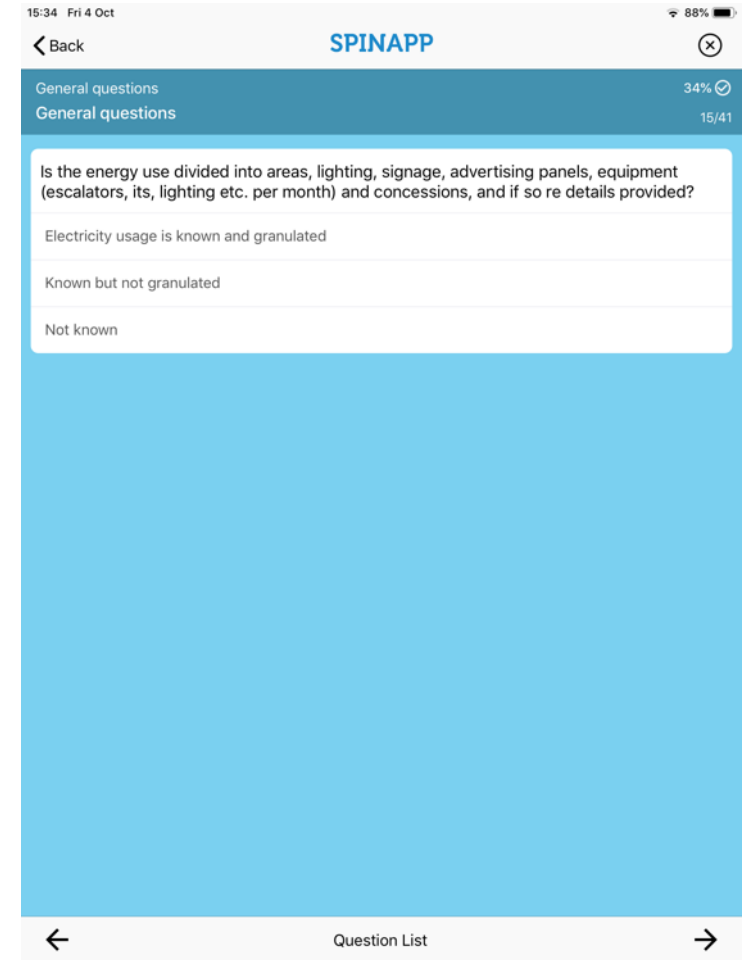
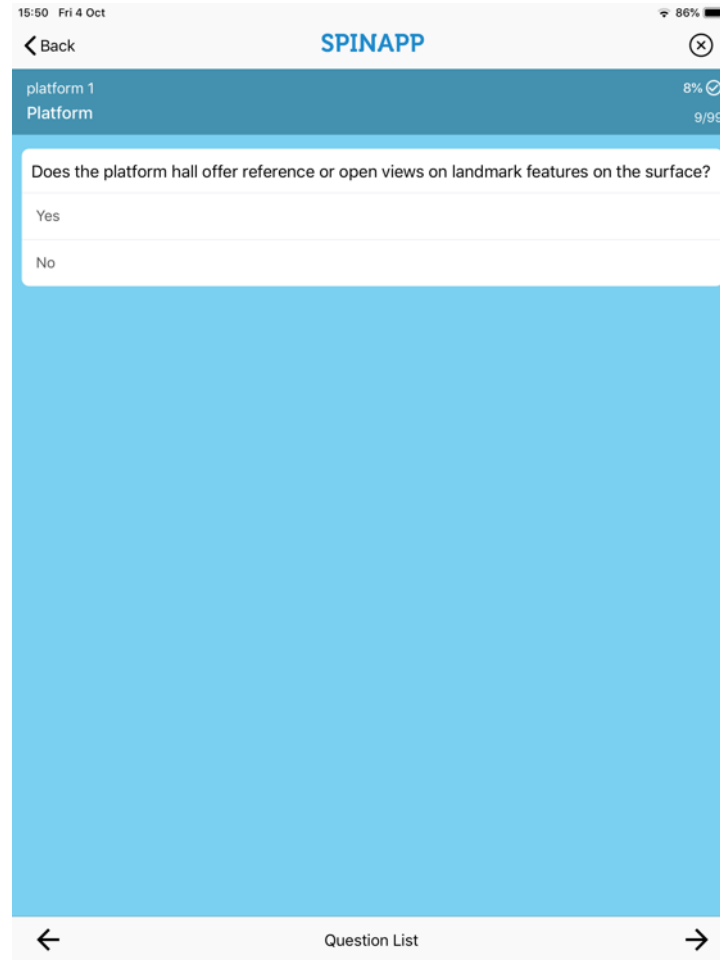
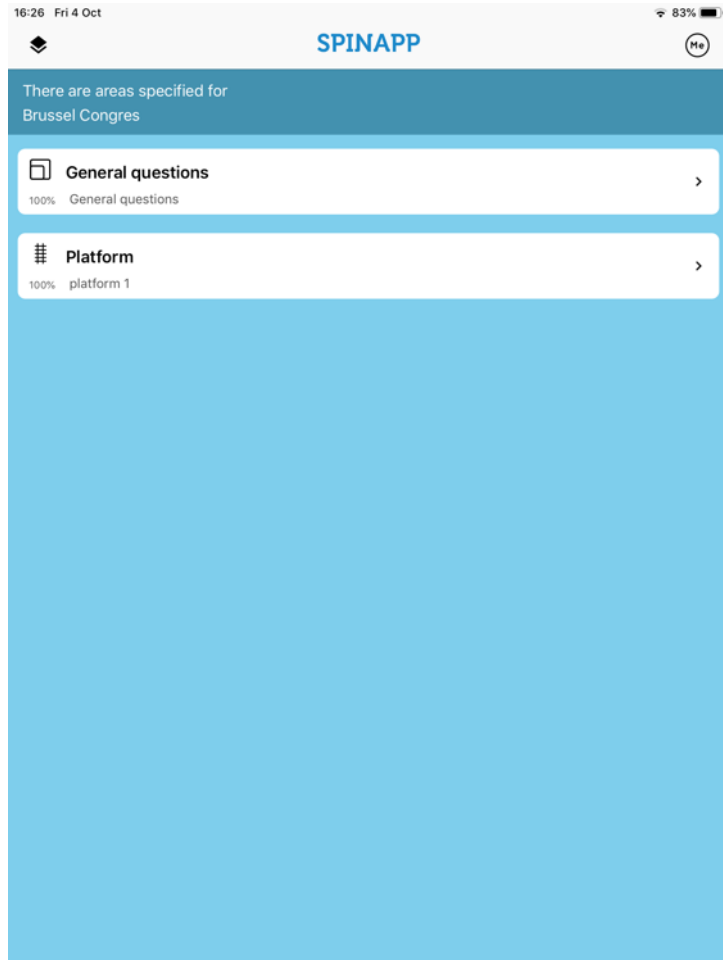
Add area
Edit levels

Level 0
Level -1
Not assigned

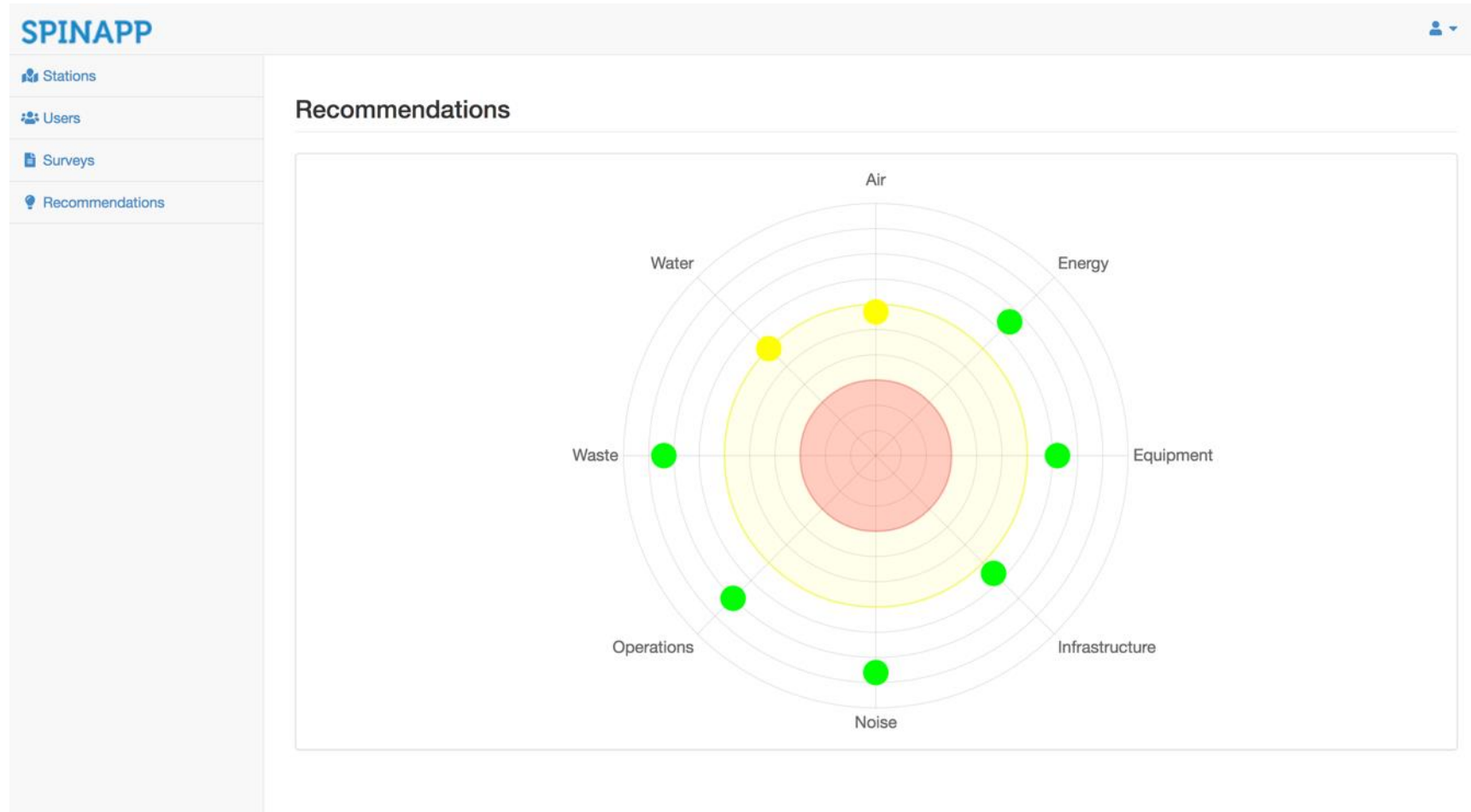
Station map

Type	Description	
	Main Hall	<input checked="" type="checkbox"/>
	Access to Platforms	<input checked="" type="checkbox"/>
	Platform 3 (AB & CD)	<input checked="" type="checkbox"/>
	Platform 2	<input checked="" type="checkbox"/>
	Platform 1	<input checked="" type="checkbox"/>
	Main Entrance	<input checked="" type="checkbox"/>
	Secondary Hall	<input checked="" type="checkbox"/>

Survey



Spider Chart




Recommendations

Reports provided:

- Security
- Energy

STATION REPORT
 CHAPTER 1 - SECURITY RECOMMENDATIONS

Level 1
Geography: Entrance 1
Description: North (Street)



VISION
Equipment:

G14
 PT entrances/exits, bus stops shall carry the name of station or hub and be highly visible signposts in the city and easily recognizable by clients. Metro premises shall be easy to distinguish in the street and public domains. Signposts shall be installed perpendicular to the passenger flow. Network, commercial and brand information shall go with the passenger flow.

Effect
 Provide easy orientation and reinforce the implicit authority of the metro Operator.

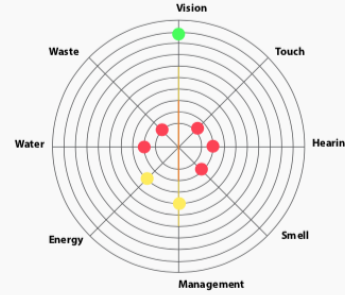
G15
 Stations and their entrances/accesses shall offer easy access to first-aid/rescue/security vehicles. Area and public transport maps shall be provided near the entrances. They shall be dirt proof. Special attention shall be given to the indication of services such as emergency, first aid, washroom and nursing.

Effect
 Provide efficient and swift assistance in the event of emergency.

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STATION REPORT
 CHAPTER 2 - ENERGY RECOMMENDATION

Level 1
Geography: Entrance 1
Description: North (Street)



OperationS:

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Equipment:

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Infrastructure:

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Thank you
for your kind attention