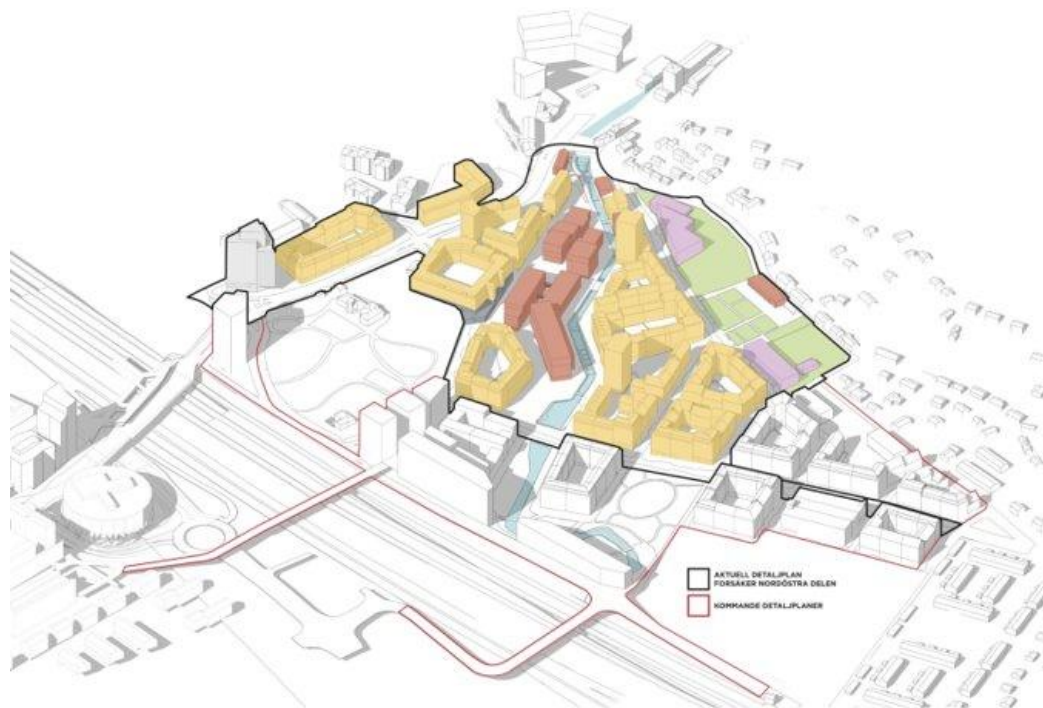


FlexGate

Pre-study on flexible and multifunctional mobility houses

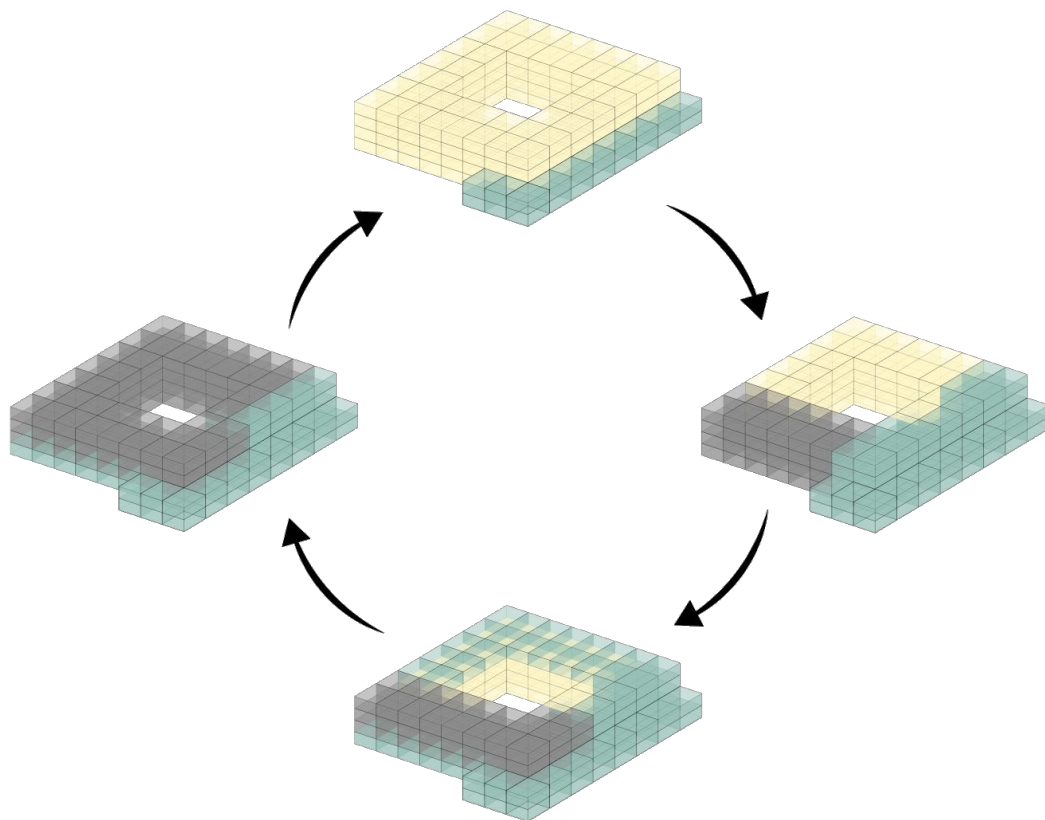
Felicia Hökars
Project manager
Lindholmen Science Park

Background/challenges



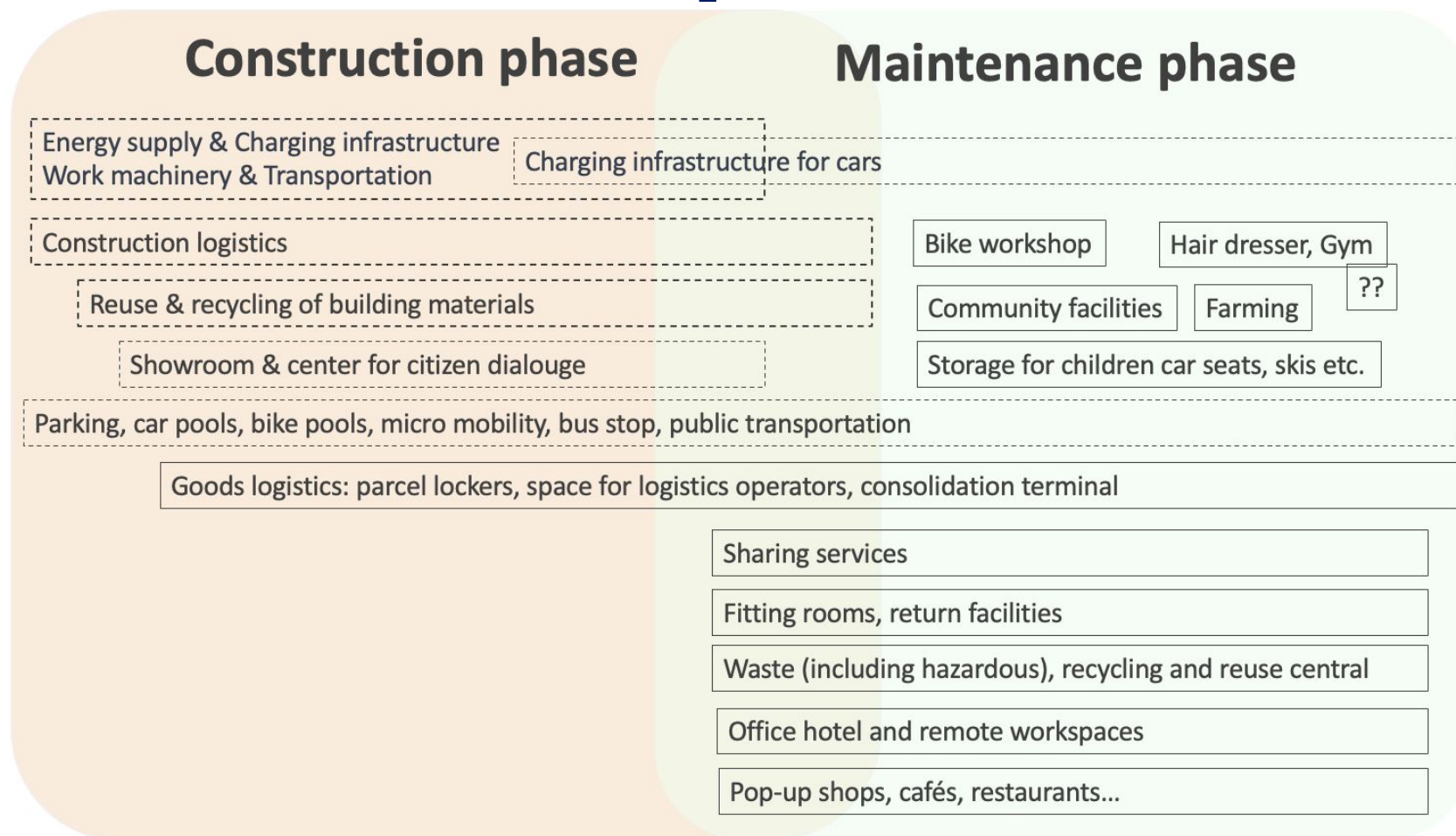
- Transition towards more sustainable modes of transportation in urban development projects
- Private parking areas are replaced by what are known as mobility hubs/houses offering shared mobility services
- For mobility houses it is often a challenge to:
 - Achieving financial viability
 - the solutions also risk becoming inflexible with respect to that needs that vary over time

FlexGate concept



- A dedicated space (open site or building) closely located to the housing/business that it serves.
- Flexible surfaces and functions/services that are added or removed depending on need.
- More than just a mobility services, being a meeting place that strengthens the area and stimulates more sustainable travel and transport.

FlexGate concept



About the project

Project lead



Johanneberg
Science Park

Co-lead

- Lindholmen
- Science Park
- ● ●

Partners



- **The aim:** collaboratively investigate the design and potential of the FlexGate concept with relevant stakeholders, creating a basis for demonstrating and utilizing the concept in real environments.
- **Method:** five workshops with stakeholders
- **Project period:** Nov 2022 – June 2023

Results



Results – potential functions

Construction phase	Maintenance phase
1. Parking	
Ground level parking	Parking shared and privately owned cars
Bicycles and other vehicles	
2. Personal mobility services	
Carpools, bicycle and micro-mobility pools, public transportation	
Autonomous shuttles	
Mobility ambassadors	
3. Logistics services for goods deliveries	
Checkpoint for construction deliveries and short-term storage, consolidation? (outdoors)	
Parcel handling, e.g., parcel lockers	
Local distribution of goods (in combination with consolidation of waste/recycling materials)	
4. Storage	
Storage building materials and tools	
Storage for residents and property managers	

Results – potential functions

5. Waste, recycling and reuse	
Central for reuse of building materials (not waste/recycling)	
	Waste compactors
	Consolidation area for waste and recycling materials
	Area for pop-up reuse days
6. Energy	
Charging infrastructure for work machines	
	Charging infrastructure for cars and other vehicles
	Local energy production and energy storage
7. Maintenance and operation	
Cleaning/washing facility for trucks	Workshop for bikes (service or self service)
8. Dialogue and meeting places	
Project office for property developers	Remote office space for residents
Showroom and dialogue center	Common areas for residents
9. Retail and service	
Hardware store and rental service	
	Other rental services (tools, sport equipment etc.)
	Café, ATM etc.

Conclusions

- Clear demand and need from the stakeholders for additional services (even during construction phase)
- Flexibility is crucial to the concept
- Coordination of the FlexGate needs to be further investigated
- The services developed must be user driven and adapted to local needs and circumstances (security aspect vital).
- FlexGate should complement not outcompete services in the vicinity



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