Interreg CENTRAL EUROPE — European Union European Regional Development Fund — CORCAP

TAKING COOPERATION FORWARD

Digital final conference | 9-10 March 2022

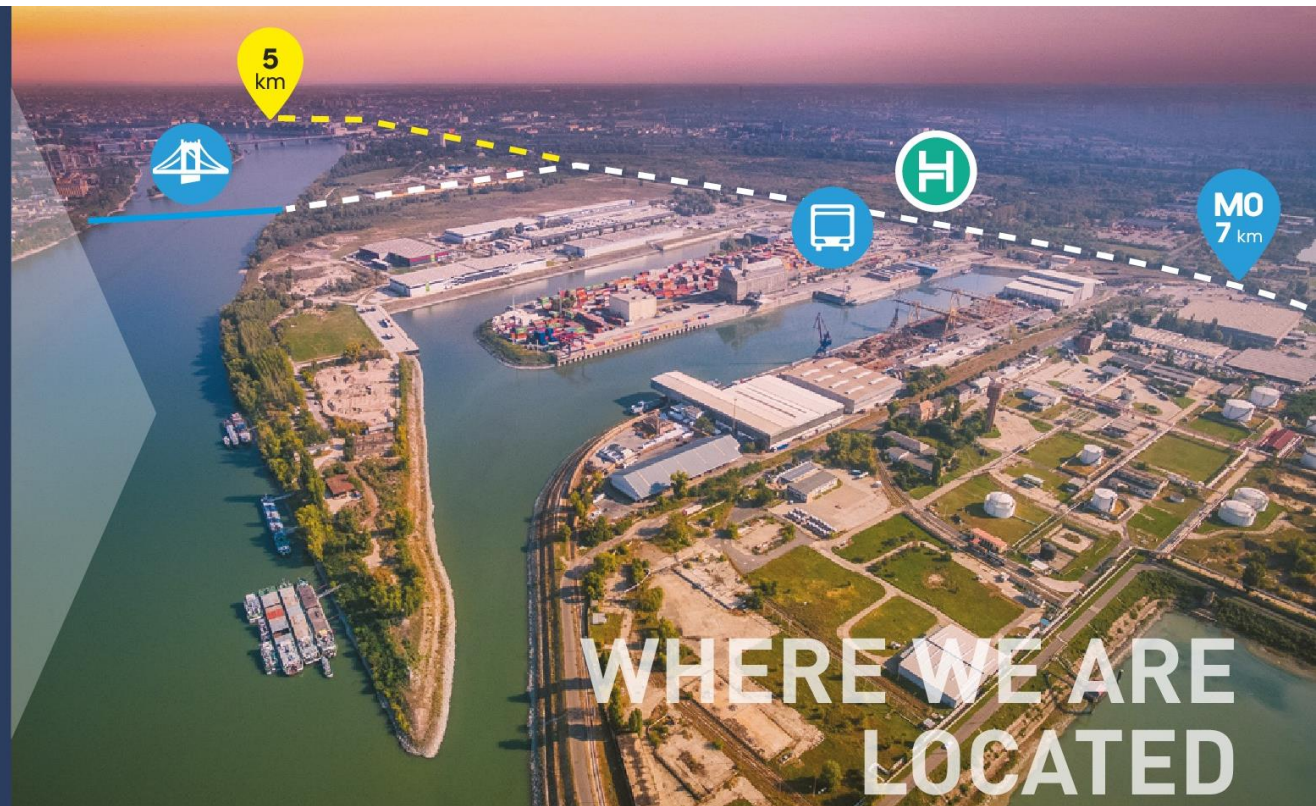# Smart traffic management system for the Budapest Freeport

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FREEPORT OF BUDAPEST

- Port owner: MAHART Freeport Plc (Hungarian State)
- Port manager: Freeport of Budapest Logistics (FBL)
- 70+ tenants/ service providers including: EKOL, Arcelor Mittal, Masped, Mahart Container Center, Ferroport, Ghibli, SYNLAB

- 30 000+ wagons
- 1 000 000 t + IWW throughput

FREEPORT OF BUDAPEST

Proposed Galvani Bridge

City Center: 5 km

M0 Ring Highway: 7 km

Means of Public Transport

Buses:179, 979, 979A

Local train: H7

5 km

M0 7 km

WHERE WE ARE LOCATED

FREEPORT OF BUDAPEST

WHAT WE OFFER

- A trimodal logistics centre
- Area of 153 ha
- 157 000 m2 roofed warehouse
- Over 12 000 m2 office space
- 34 ha development area
- Complete services of warehouse logistics, railway operation and port services
- The only trimodal container terminal in the country

CHALLENGES ADDRESSED

- Challenges in access control: over 5000 road vehicles daily in peak season

- Need for internal navigation

- Need for internal traffic management, buffering

No solution on the market for such type and size intermodal logistics centres

SCOPE OF THE PILOT ACTION

Standardised and harmonised IT system / Tailormade solution

- Automatic access control at the gates (license plate recognition cameras)

- Digital (smart) info panels and WIFI system

- Communication via a kiosk

- Multi-language software

- User interface for FBL and for the tenants and GPS Navigation / Database
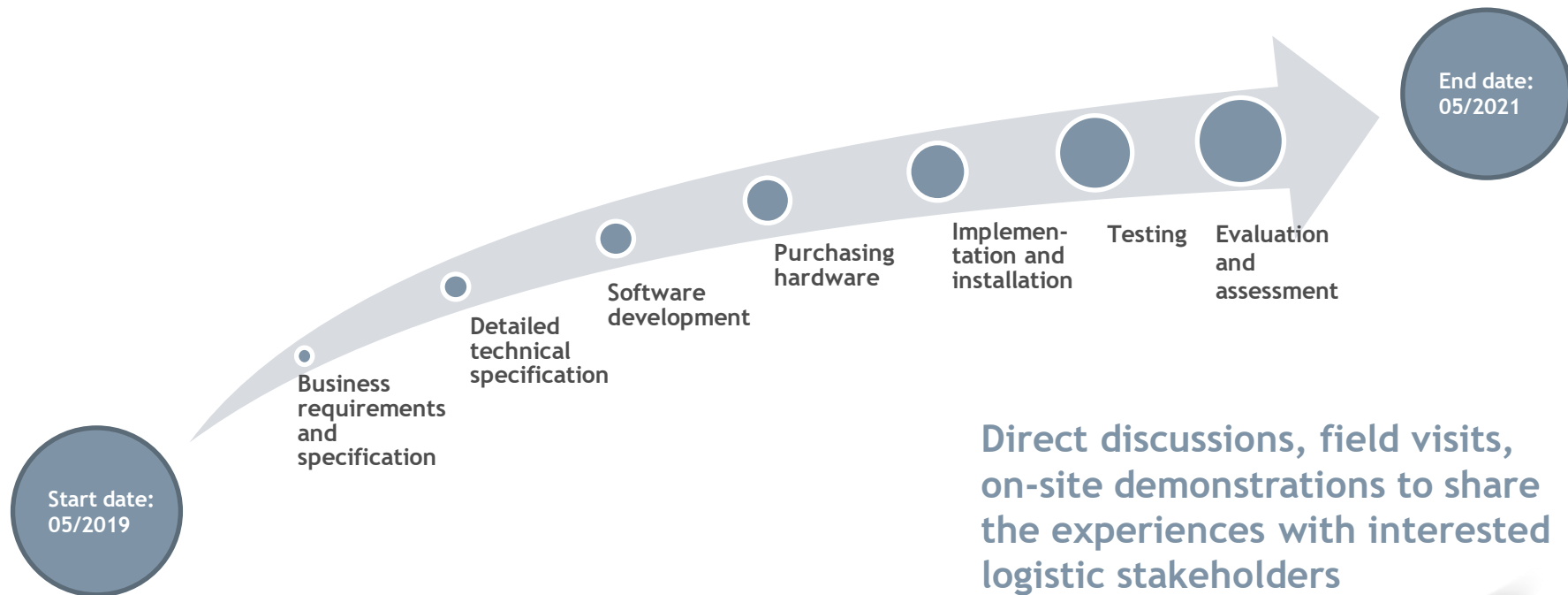
- Mobile app (Android and iOS)

Offline (kiosk, smart screens) and online (DOCKApp) route planning
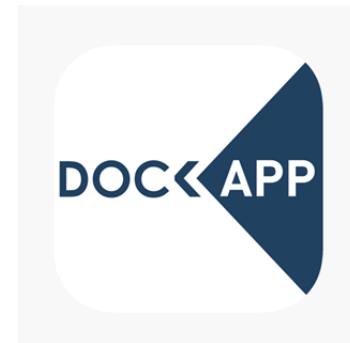
PROGRESS AND ACHIEVEMENTS

Timeline

Start date: 05/2019

Business requirements and specification

Detailed technical specification

Software development

Purchasing hardware

Implemen-tation and installation

Testing

Evaluation and assessment

End date: 05/2021

Direct discussions, field visits, on-site demonstrations to share the experiences with interested logistic stakeholders

RESULTS ACHIEVED

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✓ Navigation application (DOCK App)

✓ Reduction of congestions and long queues at the gates

✓ The ability to notify tenants about arrivals of vehicles to gates is a breakthrough

✓ The time of loading and unloading can be recorded

✓ The statistics function of the administration platform visualises these data for FBL

✓ Offline navigation system --- language extensibility, printed map

✓ Navigation to tenants got simpler and different functions are available both for FBL and for the tenants

LEARNINGS AND FOLLOW-UP

- Properly and continuously operating system

- There is an opportunity for continuous development and expansion even for the entire area of the logistics centre

- Transferability - target groups:
  - River ports in the CE region connected to road freight transport
  - Czech-Saxon intermodal sites within the consortium
  - Any other intermodal logistics site facing similar challenges as the FBL

THANK YOU FOR YOUR ATTENTION!

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