

Smart travel – Automated Baggage Handling

Enhanced baggage handling solutions at
new and existing hub airports (Panel)

8 October 2025



Introduction of Panelists

- **Adrian Łach**, BHS Manager
CPK-Poland
- **Henk Brandsma**, Strategic process developer baggage
Royal Schiphol Group
- **Michael Doughty**, BHS Specialist (Moderator)
NACO Netherlands Airport Consultants



Greenfield perspective

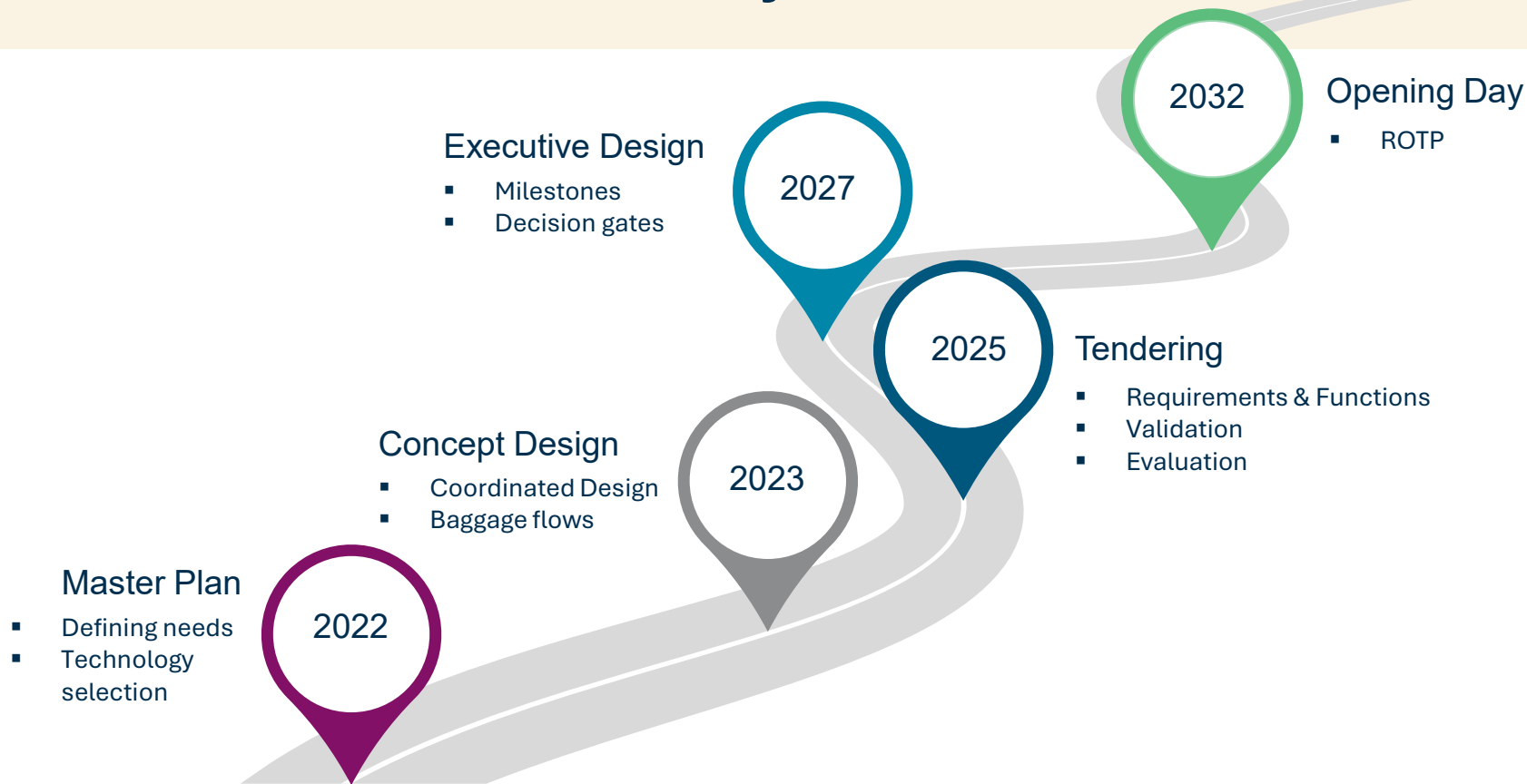
Planning experience from CPK as a new hub airport



How do you imagine BHS?



CPK: from Vision to Reality



Specific Challenges



Technology Innovations



- Manual handling aids (test package)
- Loading solution (semi-automated devices)
- Unloading solution (ULD unloaders)



- Predictive maintenance tools (condition-based)



- Predictive decision-making tools (machine learning-based)



- Identification systems (cameras with OCR)

Key assumptions:

- reduction of unnecessary work
- save resources

Operational Innovations

Bags do not manage the person, but the person manages the bags

Batch building – increasing loading efficiency through baggage flow management using the pull method.

Inbound sortation – integration of the arrival and transfer bag.

Benefits for CPK:

- vehicle movement reductions
- flexibility in customs screening
- manual mis-sorted reduction
- reclaim on demand

Benefits for airports:

- limited segregations
- increasing make-up availability

Risks:

- read rate
- capacity due to peaky demand

Key assumptions:

- reduction of unnecessary work
- save resources

Brownfield perspective

Experience from AMS as an existing hub airport



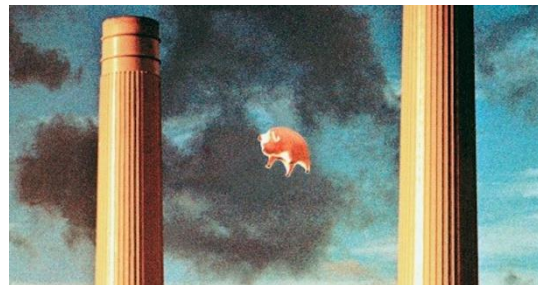
Specific Challenges



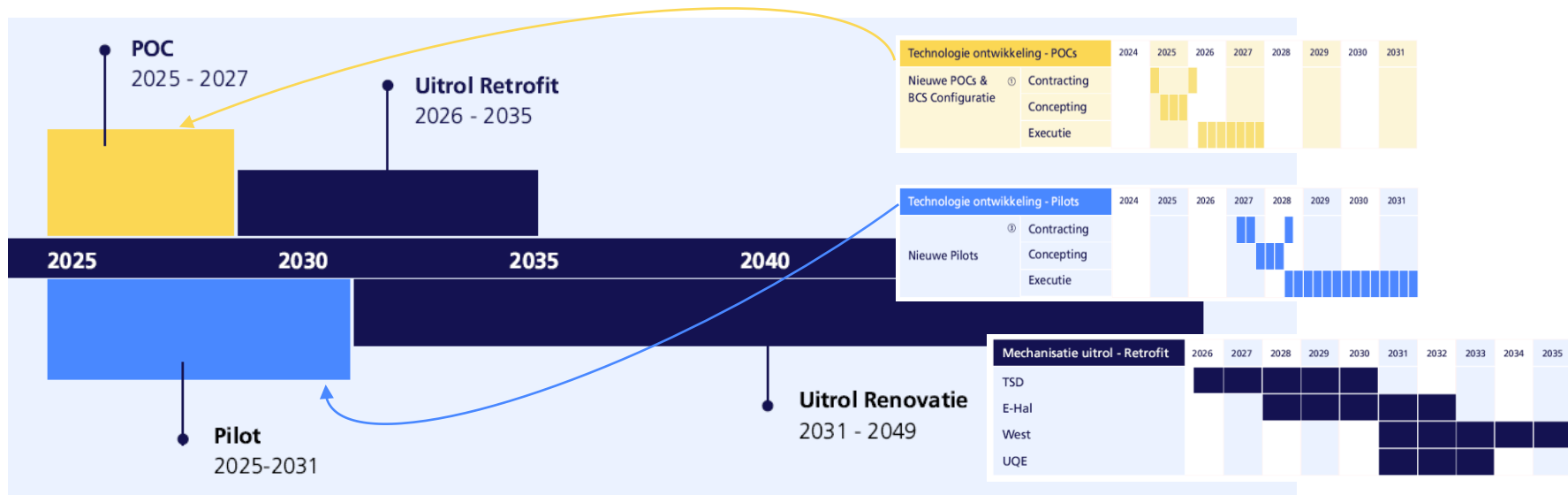
- **TRL 6: Technology demonstrated in relevant environment** - A more advanced prototype is demonstrated in a simulated operational or "relevant" environment. 

Deployment & Commercialization (TRL 7-9):

- **TRL 7: System prototype demonstration in operational environment** - A prototype is demonstrated in an actual operational environment (e.g., in space or a pilot plant). 
- **TRL 8: System complete and qualified** - The system is complete, has passed testing and qualification, and has proven to work under expected conditions. 
- **TRL 9: Actual system proven in operational environment** - The technology is fully proven through successful operation in its intended operational environment, such as a flight mission. 



Implementation timeline



Innovations in Loading

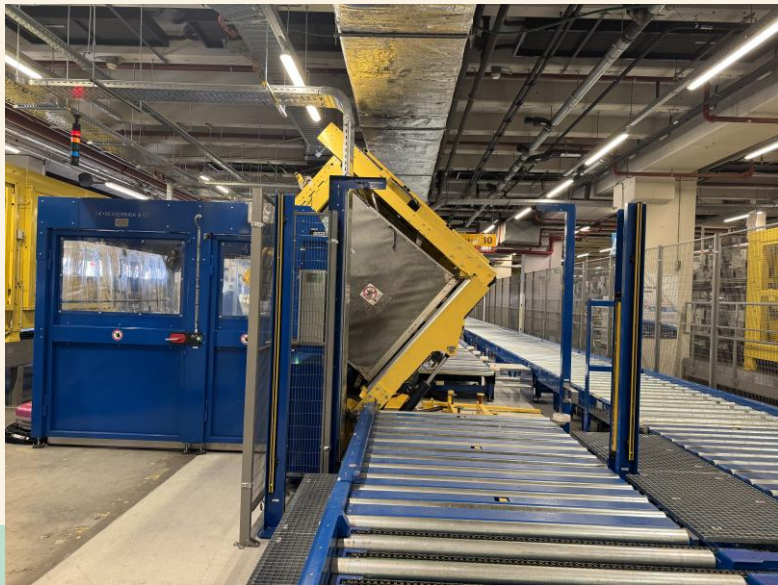


Innovations in Loading

Exhibition stand: B5-1220



Innovations in Unloading

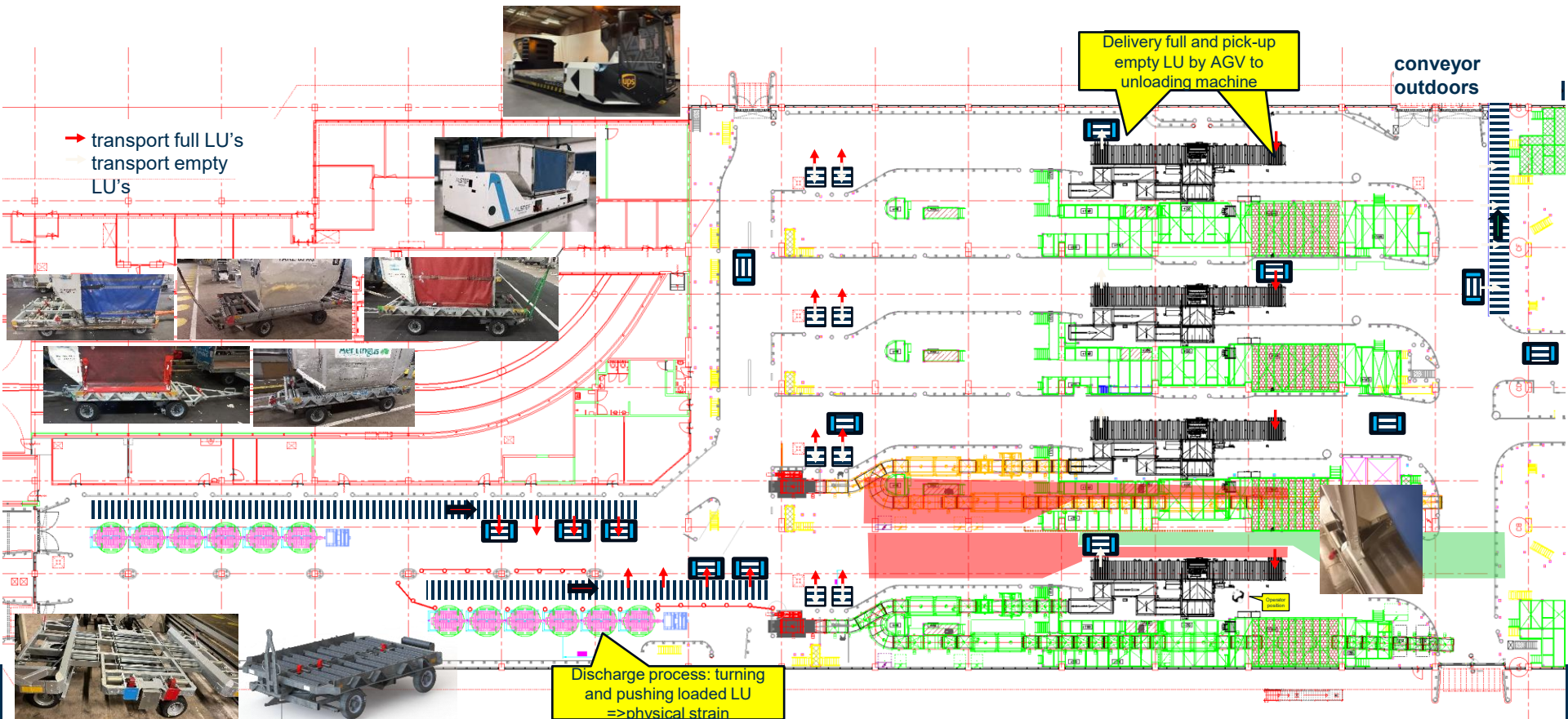


Innovations in Unloading

Exhibition stand: B5-1220



Innovations in Unloading



Panel Discussion



Adrian Łach



Henk Brandsma



Michael Doughty (Moderator)



THANK YOU

If you have any further questions we did not have time for, feel free to reach out to:



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