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15-may-2024 Geospatial World Forum Rotterdam

Asset Information Lifecycle Management

Integration and digitalisation of lifecycle phases





This presentation is part of GWF Session with the subject:

Transforming the Built Environment with Data-Driven Approaches

- •Streamlining Infrastructure Workflows through Federated Data Platforms
- •Leveraging Common Data Environment to Empower Built Environment Assets
- Data Analytics and IoT Integration in Ensuring Built Environment Sustainability



Schiphol Airport

Projects, assets and information

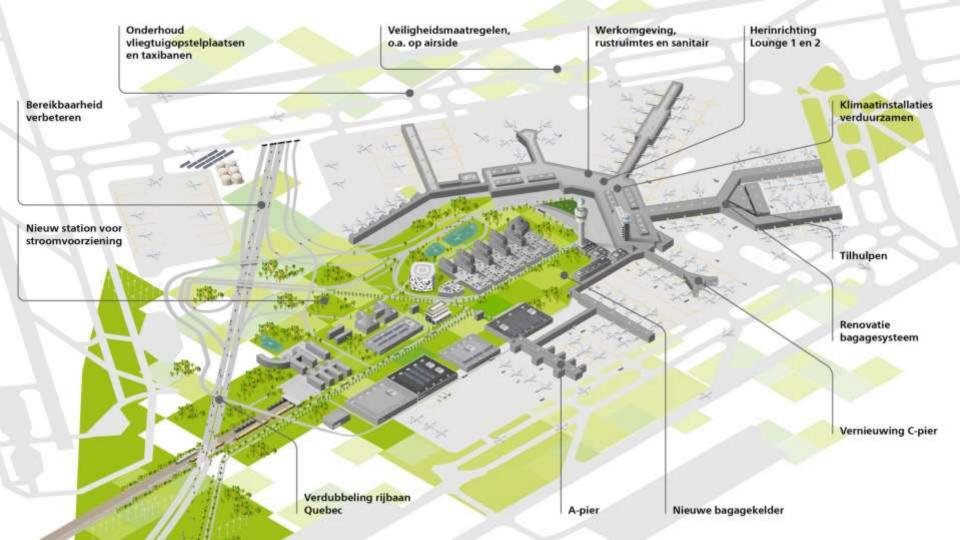
Information lifecycle management

Borders

Standards

Linked data and BIM

Titel presentatie



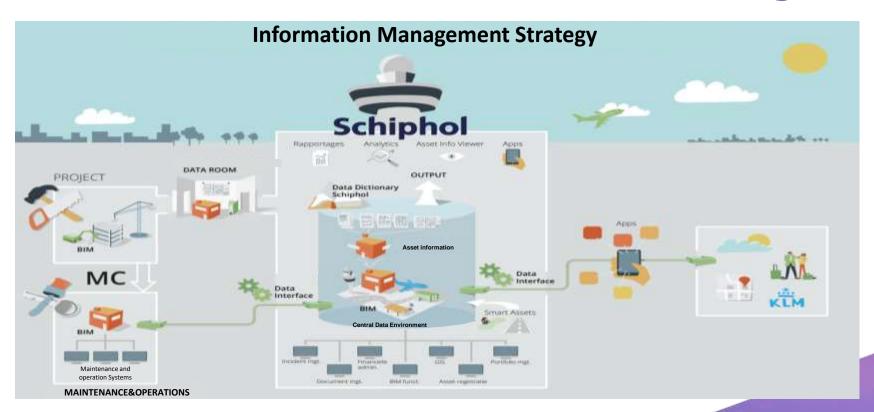
Vision

Asset management:

By managing asset information throughout the entire asset lifecycle, we enable Schiphol to create the world's most sustainable and high quality airports

Based upon vision: Schiphol 2050 - Connecting your world: creating world's most sustainable and high quality airports

Current asset information lifecycle





Architecture principles



Schiphol and Open Standards



Standards:

- **Open** = Sharing
- Standards within vision Schiphol = IFC, BCF, IDM, ISO19650, Linked Data Technologies, etc



Schiphol is unable to support just one specific software vendor;

open standards facilitate interoperability and accessibility and prevent single vendor lockin.



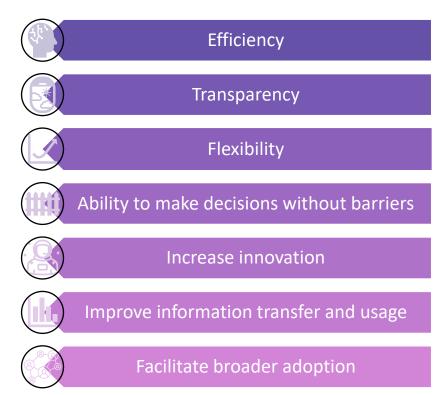
Benefits:

- Open, shareable information unlocks more efficient, transparent and collaborative ways of working throughout the entire lifecycle of assets.
- •Will (eventually) result in increased collaboration, communication and universally usable tools.

"Open Standards... constantly evolving and growing until it reaches its maturity, which then is replaced, or included in, the next method."



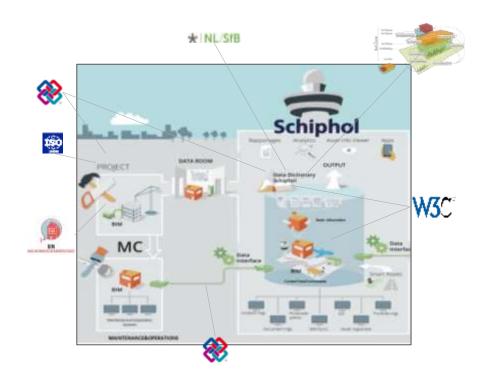
Benefits of using open standards





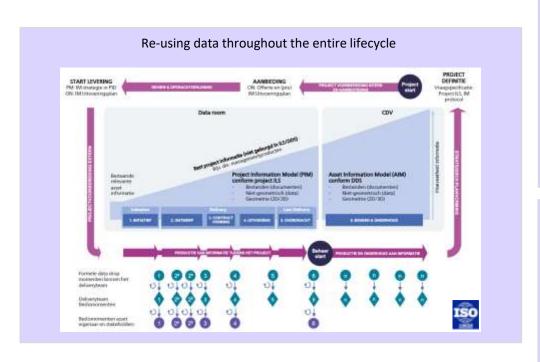


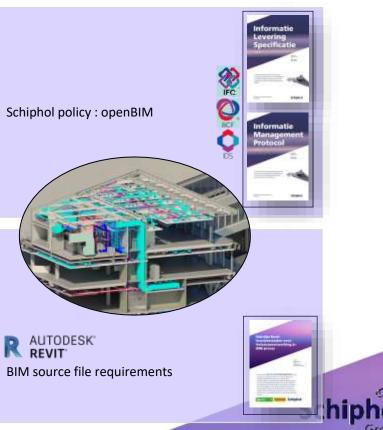
Current cycle with standards



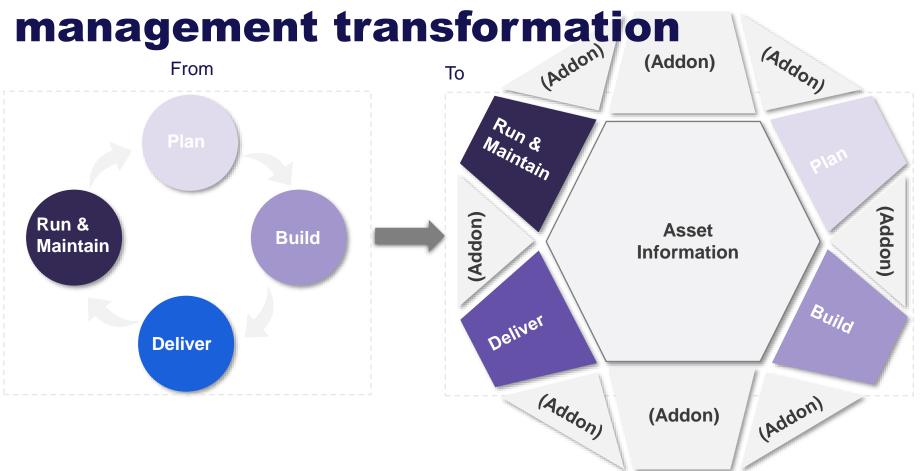


Challenges and opportunities





Asset information lifecycle



Examples of integrated asset information

Orville

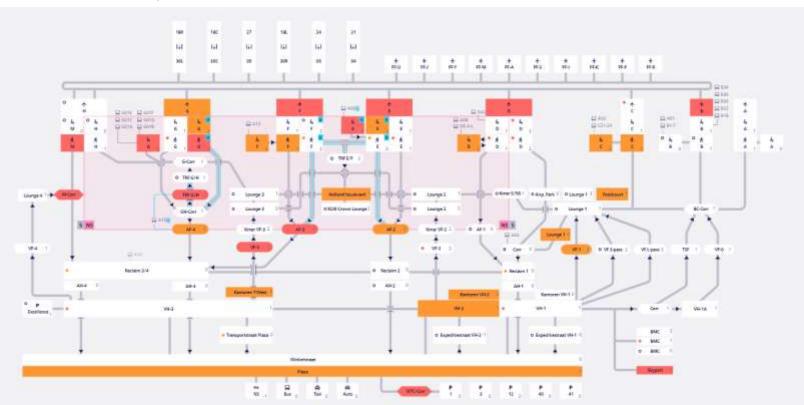
Shows the actual availability of process locations and the assets contributing to a function on that process location. It integrates data from all needed sources to a dashboard with an easy to understand overview, giving information to make decisions



Shows what is happening at Schiphol now, what is going to happen next, and helps Schiphol professionals make better decisions

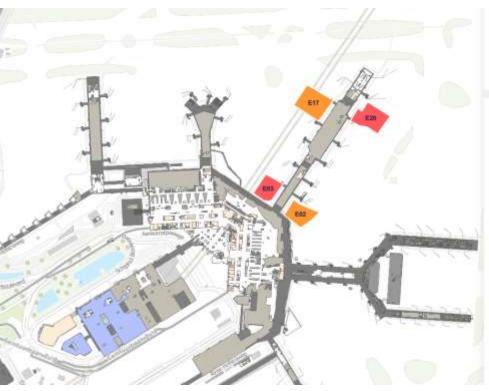
Schematic map Schiphol

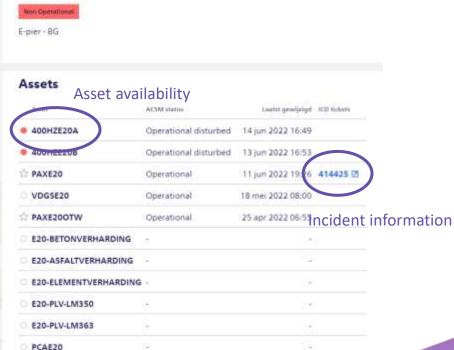
Show all areas of Schiphol



Process location details

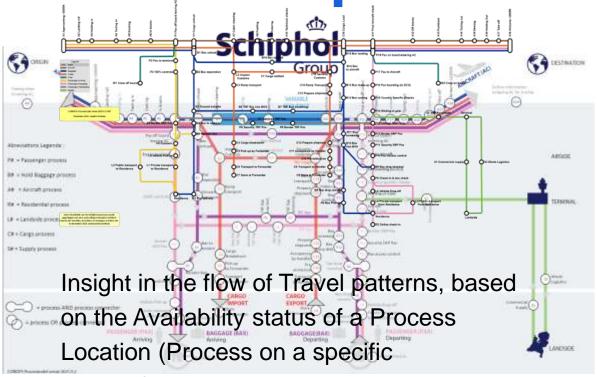
Show assets in process location





VOP E20

Digital Twin → **Processes of Operations** → **ConOps**



Digital Twin | Schiphol

location) and its interdependence.

