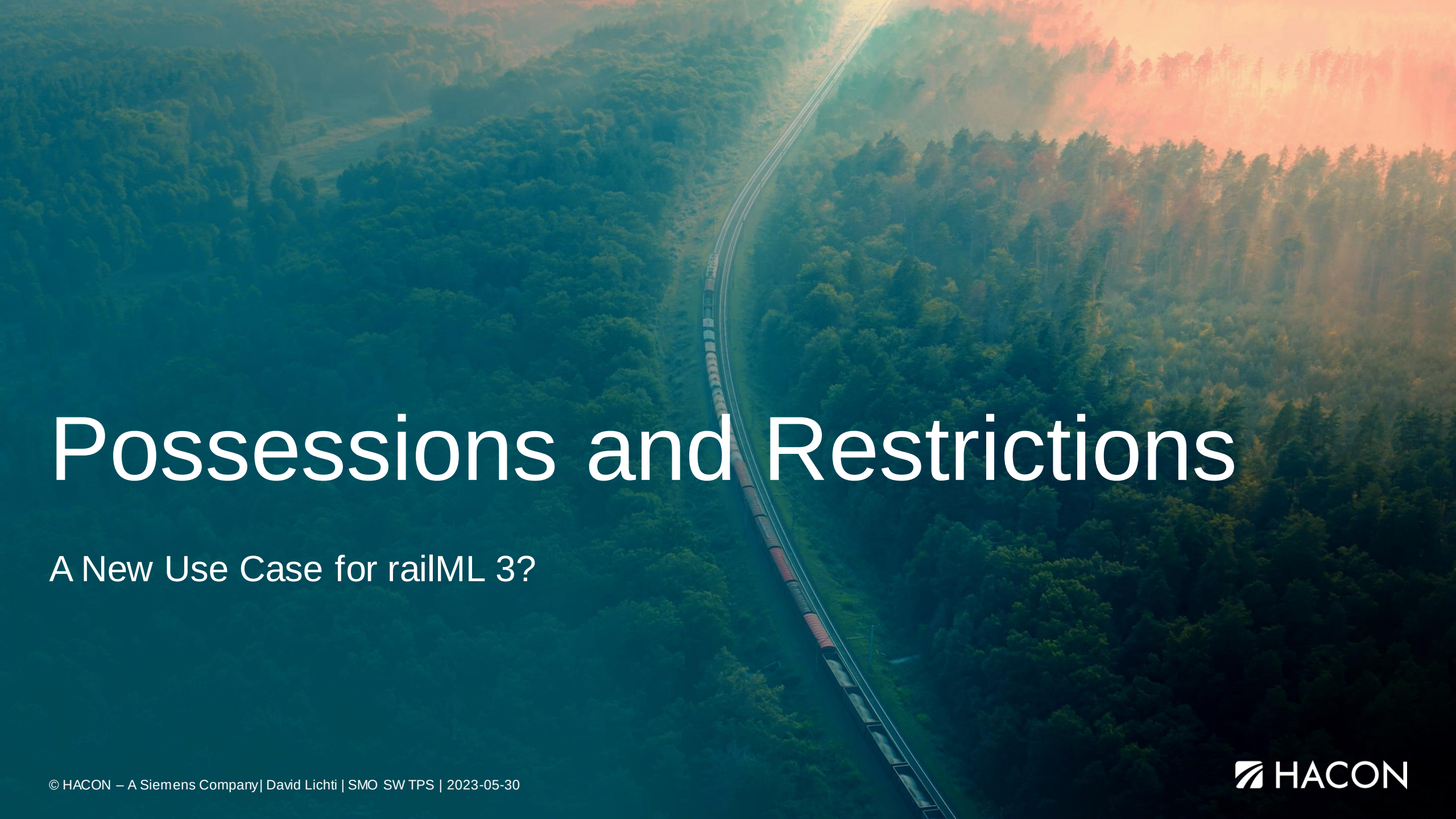

Possessions and Restrictions

A New Use Case for railML 3?

HACON

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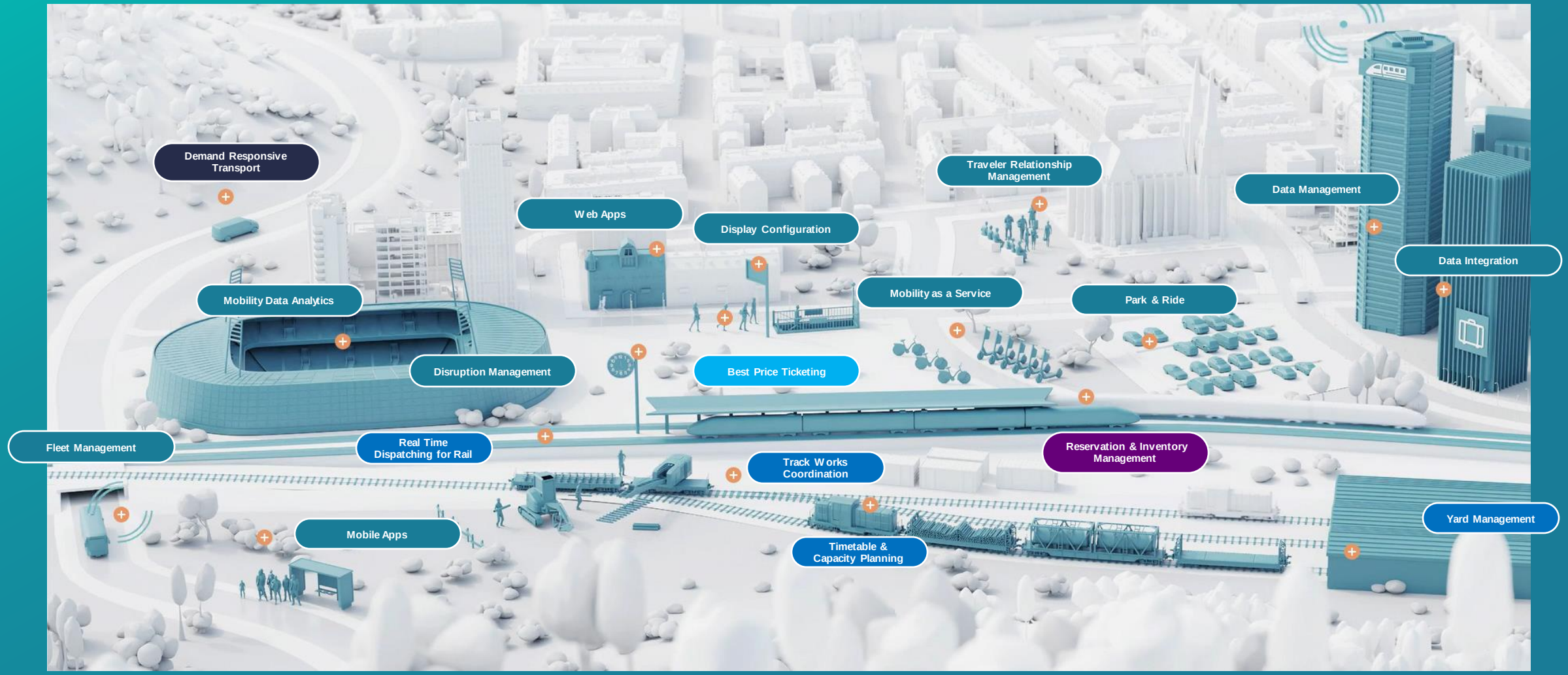

Possessions and Restrictions – Definitions

A *possession* is a temporary capacity reservation on some part of railway infrastructure for non-operational use.

wiki3.railml.org/wiki/User:David_Lichti/UC:Possessions

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Possessions and Restrictions – Definitions

A *possession* is a temporary capacity reservation on some part of railway infrastructure for non-operational use.

This causes *restrictions* for regular operations on and around the possession location.

wiki3.railml.org/wiki/User:David_Lichti/UC:Possessions

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Possessions and Restrictions – Use Case

Description

Possessions are managed by the infrastructure manager:

- Receive and handle possession requests:
  - Organization, responsibility, contact.
  - Location, date and time of restrictions.
  - Type of work, protective measures.

Possessions and Restrictions – Use Case

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  - Detect conflicts with trains and other capacities.
  - Re-plan, re-route, re-power.
  - Update or cancel affected capacities.

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Possessions are managed by the infrastructure manager:

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  - Type of work, protective measures.
- Coordinate capacities:
  - Detect conflicts with trains and other capacities.
  - Re-plan, re-route, re-power.
  - Update or cancel affected capacities.
- Notify affected parties:
  - Operators and drivers about alterations and restrictions.
  - Dispatchers and controllers for protective measures.
  - Customers and passengers about service degradations.

Possessions and Restrictions – Use Case

Frequency and Complexity

Possession and restriction planning closely follows the timetable construction cycles:

- LTP: Full timetable period report for the entire network.
- STP: Selective, incremental updates relative to the last exchange.
- VSTP: Final restriction plan for implementation during the upcoming days.

Possessions and Restrictions – Use Case

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Focus

There are two main aspects to this use case:

- Possessions: Planning, organizing and coordination of track and maintenance work.
- Restrictions: Managing impacts of possessions on train operations.

Possessions and Restrictions – Discussion

Call for Feedback

What are your use cases around possessions and restrictions?

How are possessions and restrictions handled in your context?

What data do you need to import possessions and restrictions into your system?

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Possessions and Restrictions

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