Time Aware
Geographic Applications

As seen from a distance ....

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GPS usage massively creates valuable geo-stamped event data

... Even if not as accurate
Communication includes Time and Location: an infrastructure project example
Working examples
An operational example: infrastructure project synergy management
An operational example: mooring management application

Source: MBZ ligplaatsenbeheer
Planning / Optimisation questions: always uses time and location
Geo-temporal allocation conflicts - examples

- **Overlap**
  - Spatial and temporal overlap on quay

- **Perimeter Overlap**
  - Problem when manoeuvring and moor ship with ropes

- **Overlap alongside**
  - Spatial and temporal overlap of two ships who moor alongside another ship

- **Lacking space on quay**
  - Not enough space to moor ship on quay
Meet&Fleet: testing readiness for car-sharing
Meet&Fleet: A live trial

The business case

- How many people can be mobilized?
- How many kilometers / euros can be saved?
- Can an organization use this?

- Participants GPS tracks
- Match time and place of arrival
- HUBS they pass by
Conclusions and Take Away’s

- ‘Intelligence’ > decision support
- Comprehensive geo-temporal user interface
- Value of ‘stamped’ event data
- Geo-temporal algorithmic concepts
More than 80% of information managed in your IT can be mapped
60% to 80% of decisions are based on geographic data
The user interface of the future has to integrate time and location decision criteria

1. A dynamic geographic pan & zoom slider
2. A dynamic time slider, to select a time period continuous or selection of dates / hour ranges etc.
3. A simple selection and representation criterion.
   Example: price - color legend price per night (5 levels)
   Example: availability – display or not
Business value is created through better control over business events

Linked documents
- Inspection report
- Site Photograph
- Maintenance Report
- Technical Instruction

Linked (located) events
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Lifecycle status information
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Projected
- Designed
- Under Construction
- As built
- Out of service
- Retired

Line/Cable
- Station
- Equipment
Generic geo-temporal concepts can be applied in many sectors for geo-temporal processing.
A call for testing your organisation’s car-sharing readiness

- We are looking for
  - Larger organisations
  - Centralised offices
  - Many people using cars for home-work transport

- To further test the optimisation opportunities
  - Improve overall mobility
  - Benefit Financially
  - Contribute to a better environment

- Interested: contact
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Thank you very much for your attention!
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