

The background of the slide is a photograph of a large industrial manufacturing facility. It features a complex network of steel beams, pipes, and machinery. In the foreground, there's a long, low-profile industrial cart or conveyor system. The lighting is bright, with a strong light source on the right side creating a lens flare effect. An orange semi-transparent rectangular overlay is positioned on the left side of the image, containing the title and date.

MBSE for SME

November 2025

**Every Retirement isn't just a
goodbye, it's a library closing**

What if we could keep the books?

A supplier asks to change a dimension, what are your next steps?

Imagine knowing instantly what that change affects.

Losing **knowledge** isn't
just losing data >>

it's losing **time**,
trust, and often,
customers

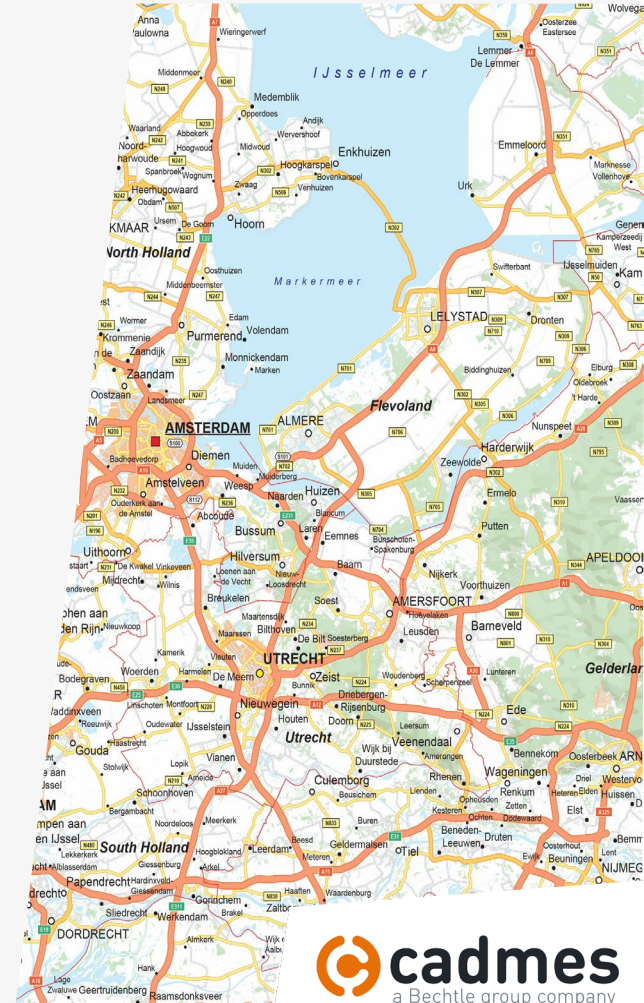
You are a MBSE user !

» You exhibit systems thinking approach!

Static vs Dynamic Models

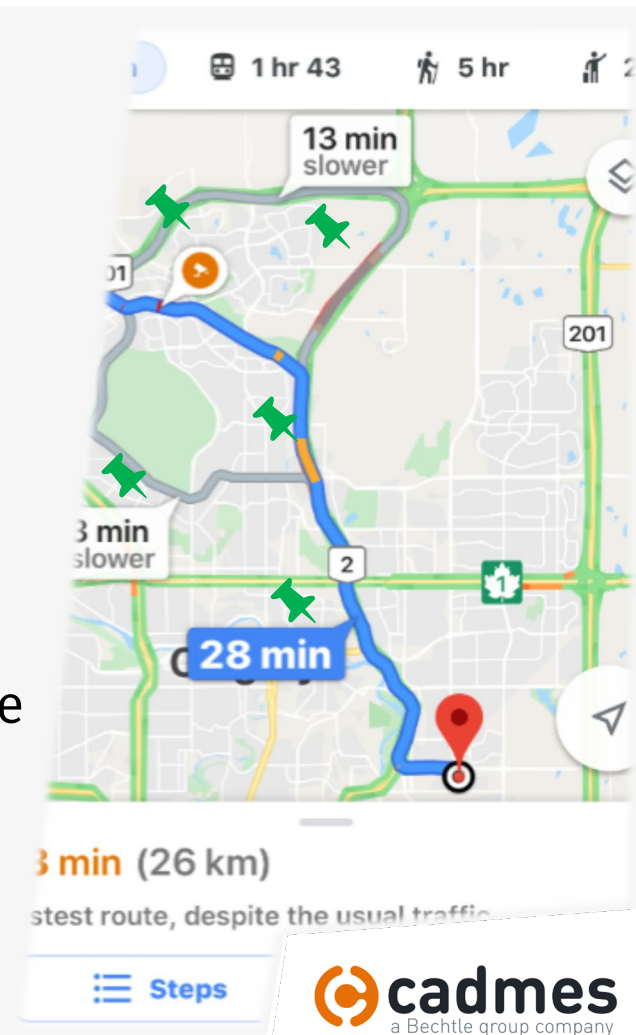
- » A physical map is also a model, but it's a static model
- » It does not reflect or adapt to new changes
- » You can use it, but with the following assumptions:
 - » Nothing has changed since the map has been created
 - » There are no chance of having roadworks
 - » No natural disaster, accidents

Basically, you are working in **SILOS**



Static vs Dynamic Models

- » It reflects and **adapts** to new changes, such as road closures or traffic conditions.
- » You can use it **without assuming** nothing has changed since it was last updated.
- » It provides **real-time updates** on traffic, roadworks, and accidents.
- » The model is continuously adjusted based on live data from *satellites*, *sensors*, and ***user reports***.



Methodology

Requirements

- Specify the current location
- Able to enter destination
- Give live updates, different route options

What do you want?

Functional

- Time estimation
- Route calculation

What should the system do ?

Logical

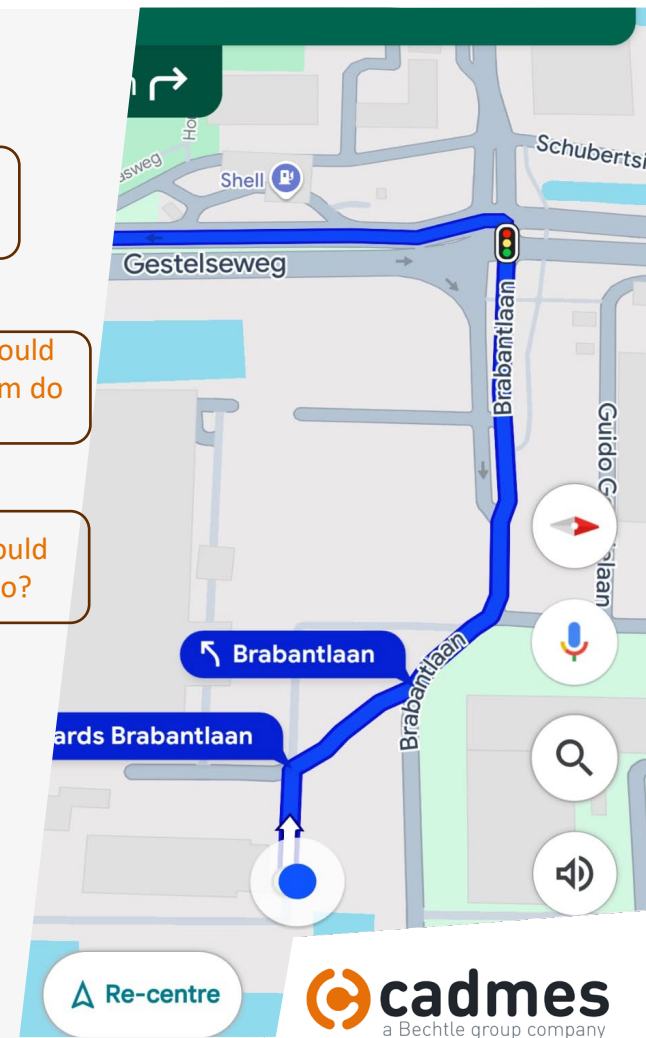
- Routing algorithms
- Traffic algorithms

How should it do?

Physical

- Display panel
- Microchip,gps modules

What are the actual components?



**Let's look at
a machine**

Coffee machine



What we don't see

REQUIREMENTS VIEW

STRUCTURAL VIEW

BEHAVIOUR VIEW

PARAMETRIC VIEW

?

?

?

?

?

?





CHANGE ?

“2D drawings work just fine, why complicate things with 3D?”

“We don’t have time to learn a whole new system.”

“Our customers don’t ask for 3D models, why should we bother?”

“3D modeling will slow down our engineers. We’ll lose productivity”

“We’ve been designing in 2D for 30 years, why change what works”

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Managing knowledge isn't
just Managing data >>
it's gaining time,
trust, and often,
customers



Curious how your company product can benefit?



Let's explore together

