“Transition process of the Large Scale Base Topography of the Netherlands in historical perspective The Past, Present and Future.”

By Martin Peersmann

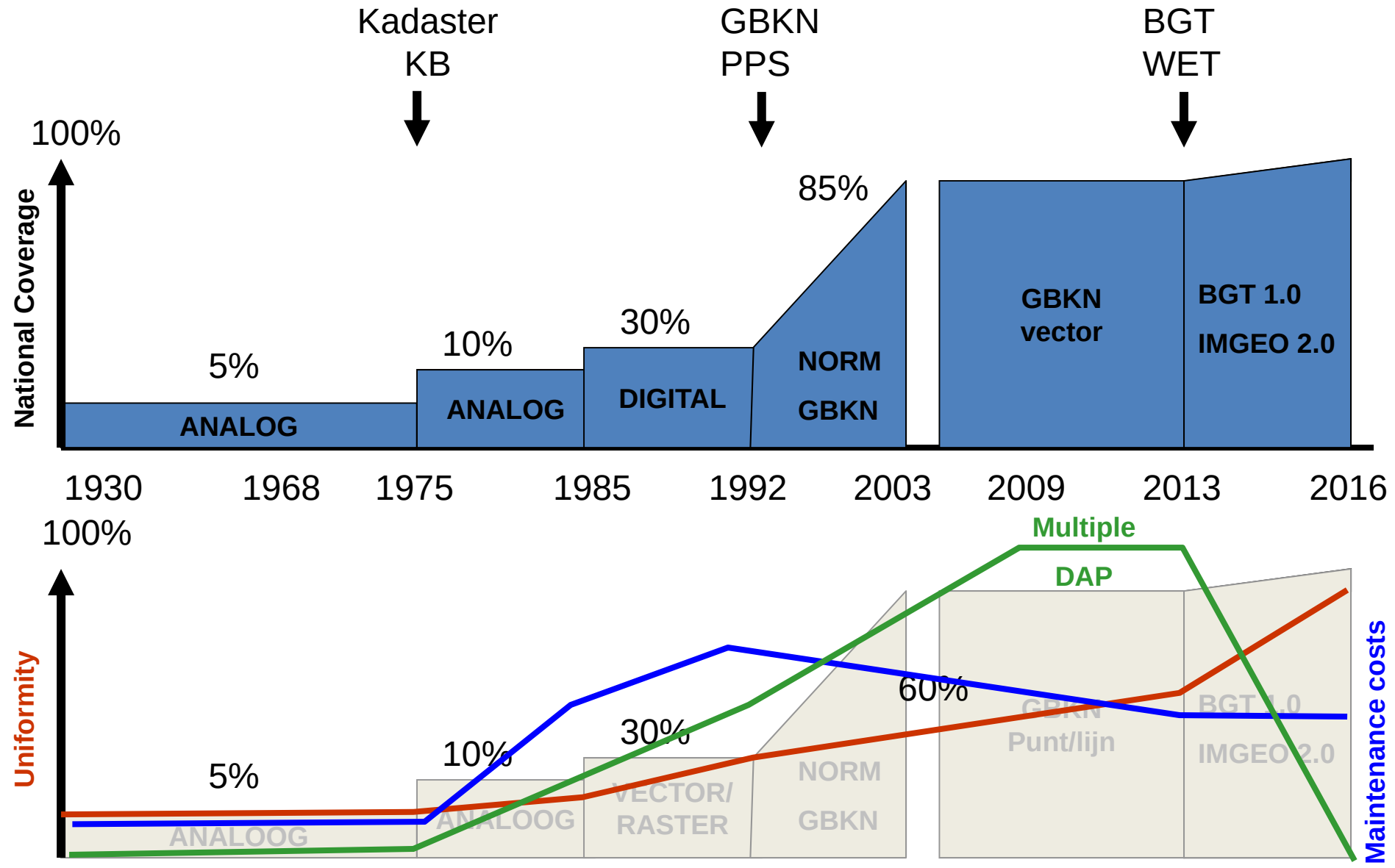
As early as in the 30’ the Dutch politicians were concerned about damage to the cable and pipeline infrastructure. They stated:

The cable and pipeline infrastructure in the Netherlands are
"the nervous system of modern society”.

Member of parliament J. Glerum 1937

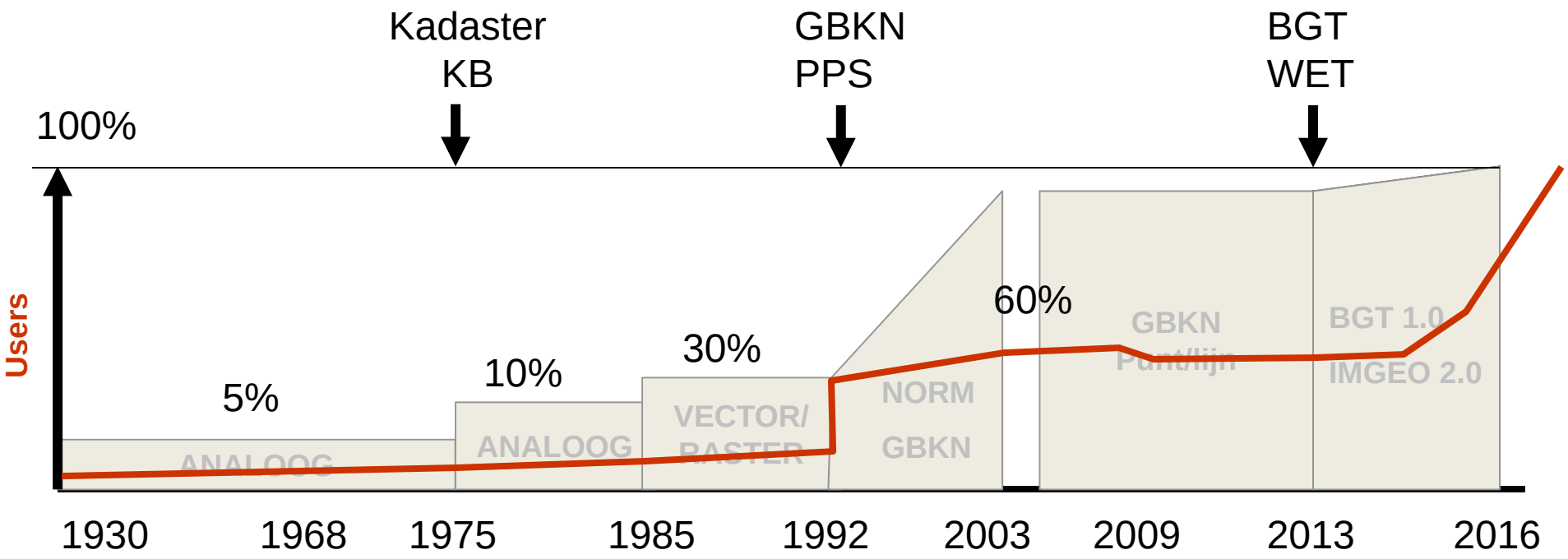
Transition process of the Large Scale Base Topography of the Netherlands

in historical perspective The Past, Present and Future



Transition process of the Large Scale Base Topography of the Netherlands

in historical perspective The Past, Present and Future



Transition proces

GBKN → IMGEO 2D→3D

Nuts GBKN
1975 - 1992

DUF

Norm GBKN
1992 - 1992

NEN 1878

IMGEO LOD0
2012 - 2016

IMGEO LOD2
2017 - 2021

GML-StUF

Production proces

Large Scale Base Topography

Satellite

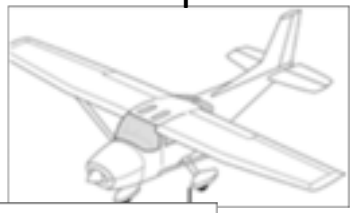
Laser Altimetry

Aerial

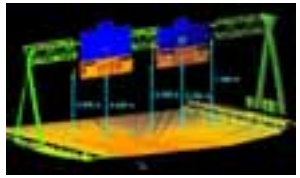
Stereo photos

Landsurvey

Aerial photos



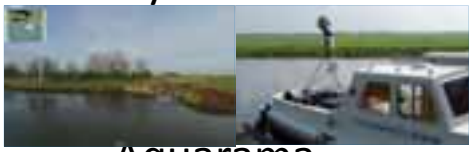
1930 1968 1975 1985 1992 2003 2009 2013 2016



Laser scanning

terrestrisch

Cyclorama



Aquarama

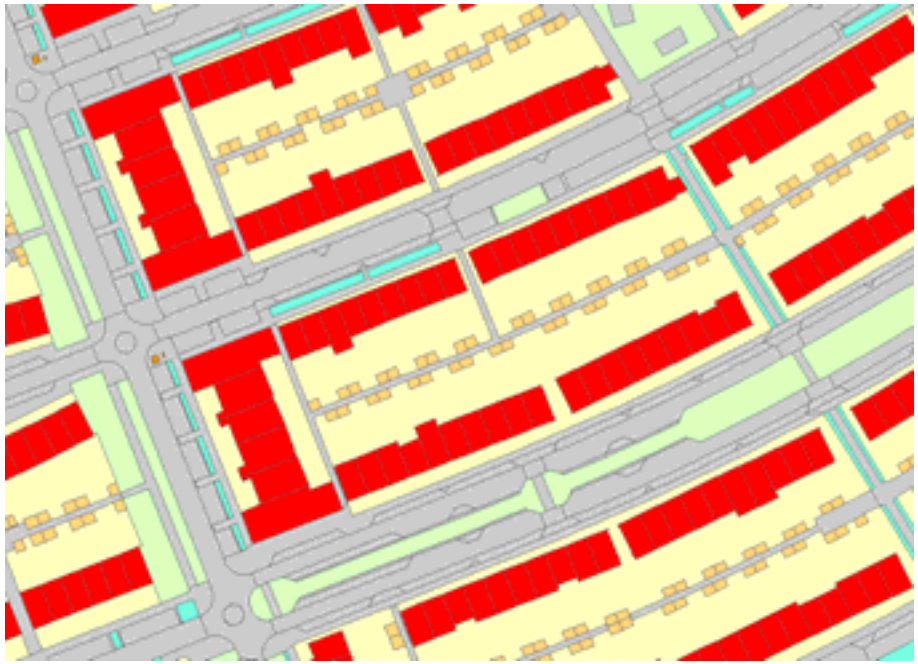
Cost Benefit Analysis

benefit management – cost reduction Multiple DAP

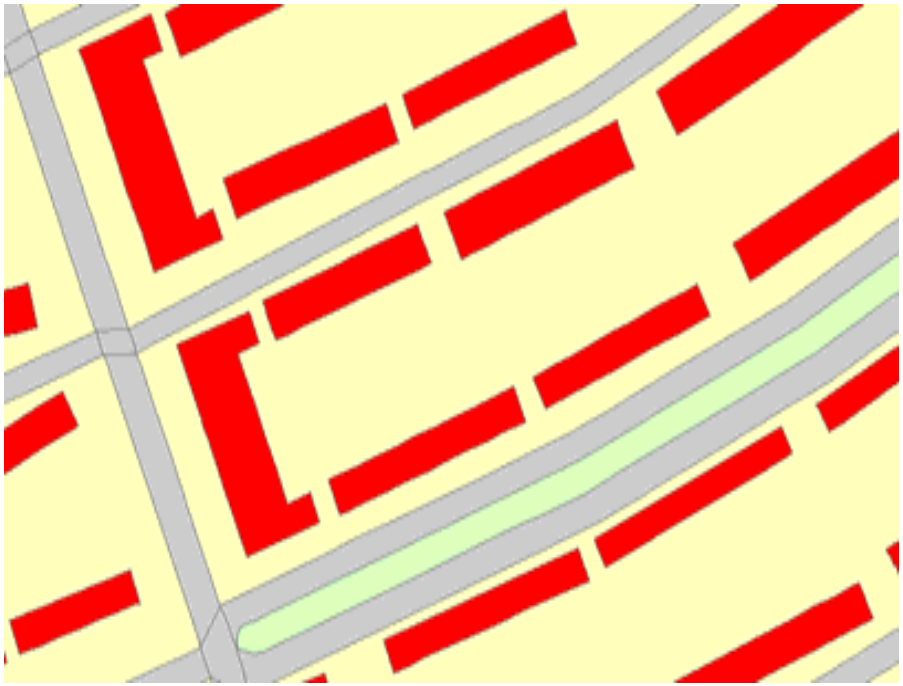
Cost Benefit Analysis

benefit management – automated generalisation
cost reduction

IMGEO 1:1000

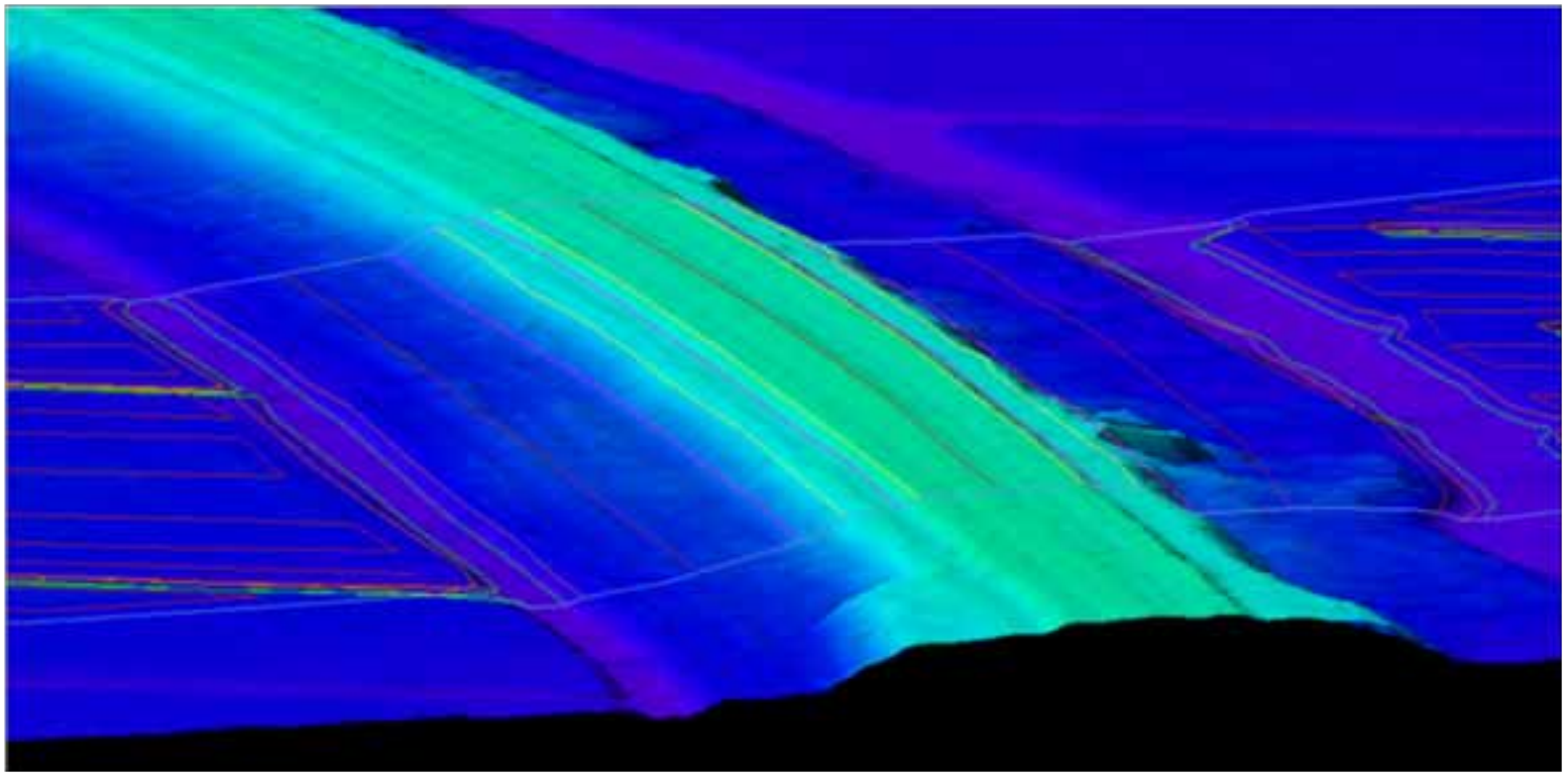


TOP10NL 1:10.000



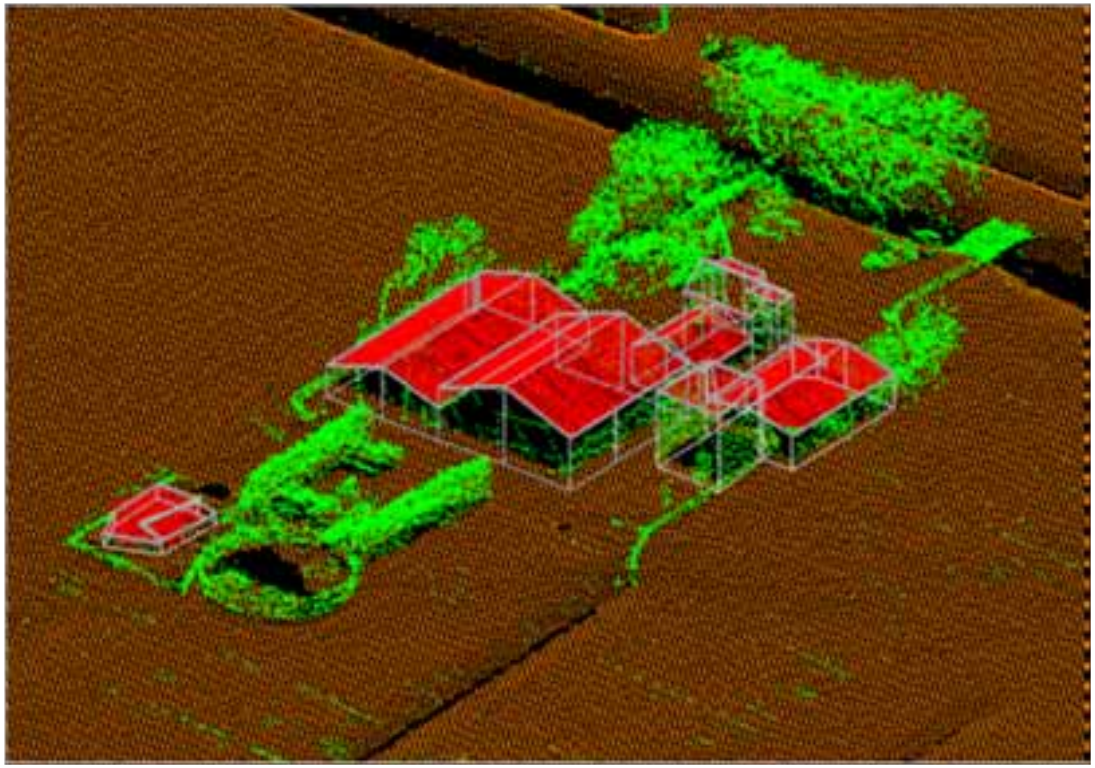
Upgrade from 2D – 3D

"Dropping" on DEM AHN-2



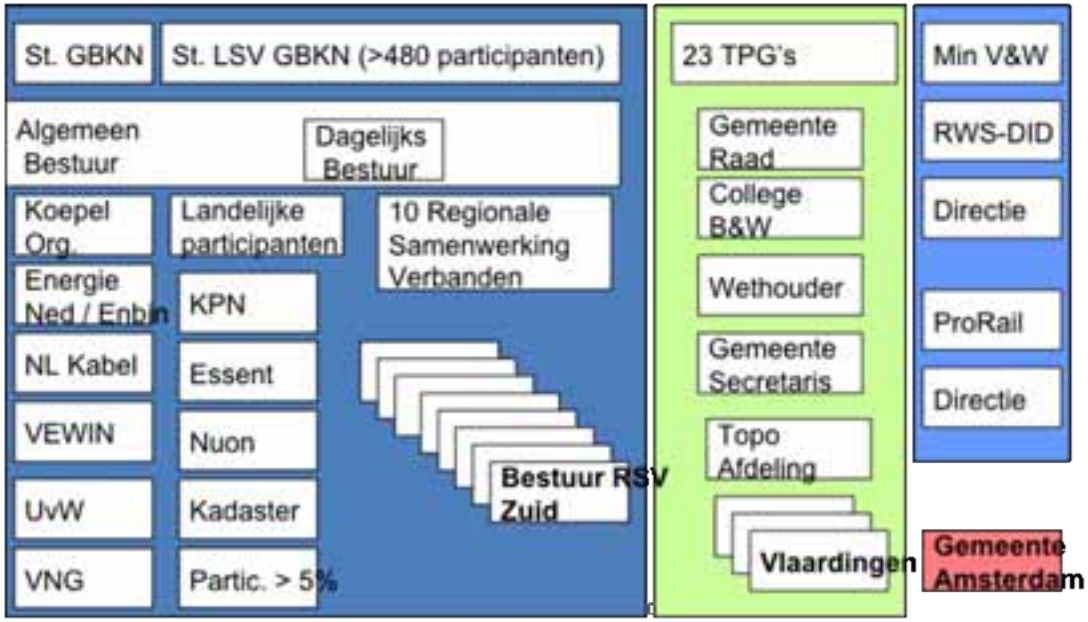
Upgrade from 2D – 3D

"Dropping" on DEM AHN-2



Organizational Changes

Present GBKN

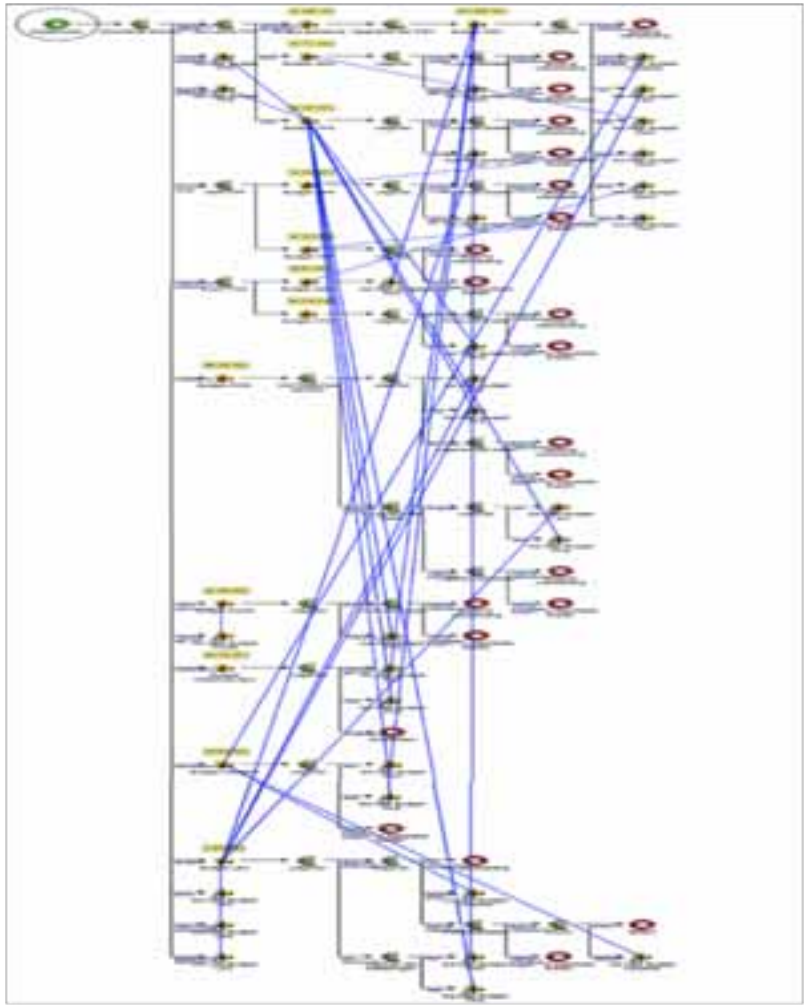


Future BGT

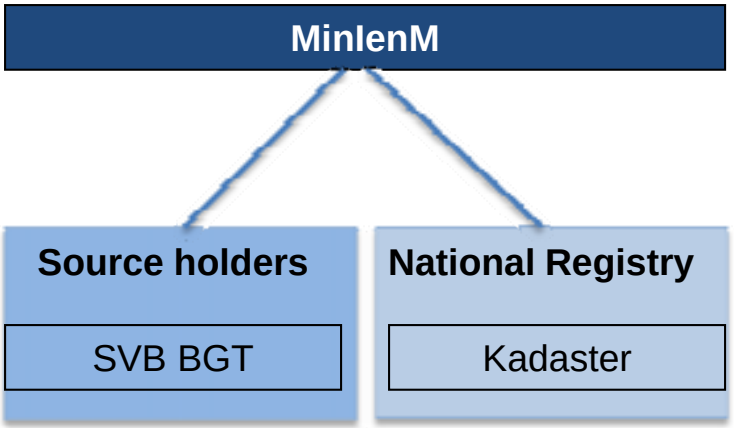
Financial Changes

Flow of Funds (FOF)

Present GBKN



Future BGT



End