



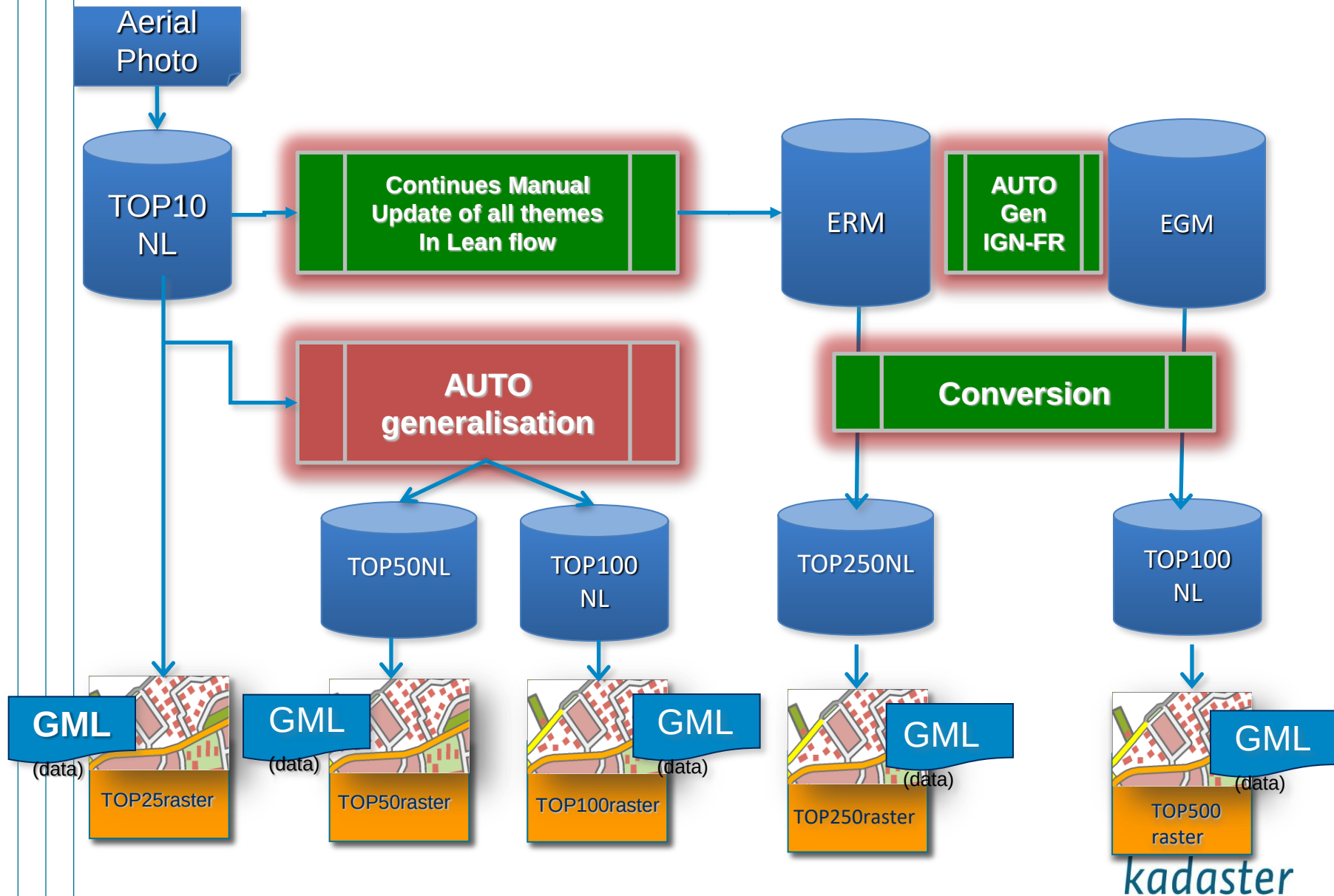
ERM in lean flow

Amsterdam, 09-2016

Ben Bruns

Producing ERM from a lean perspective

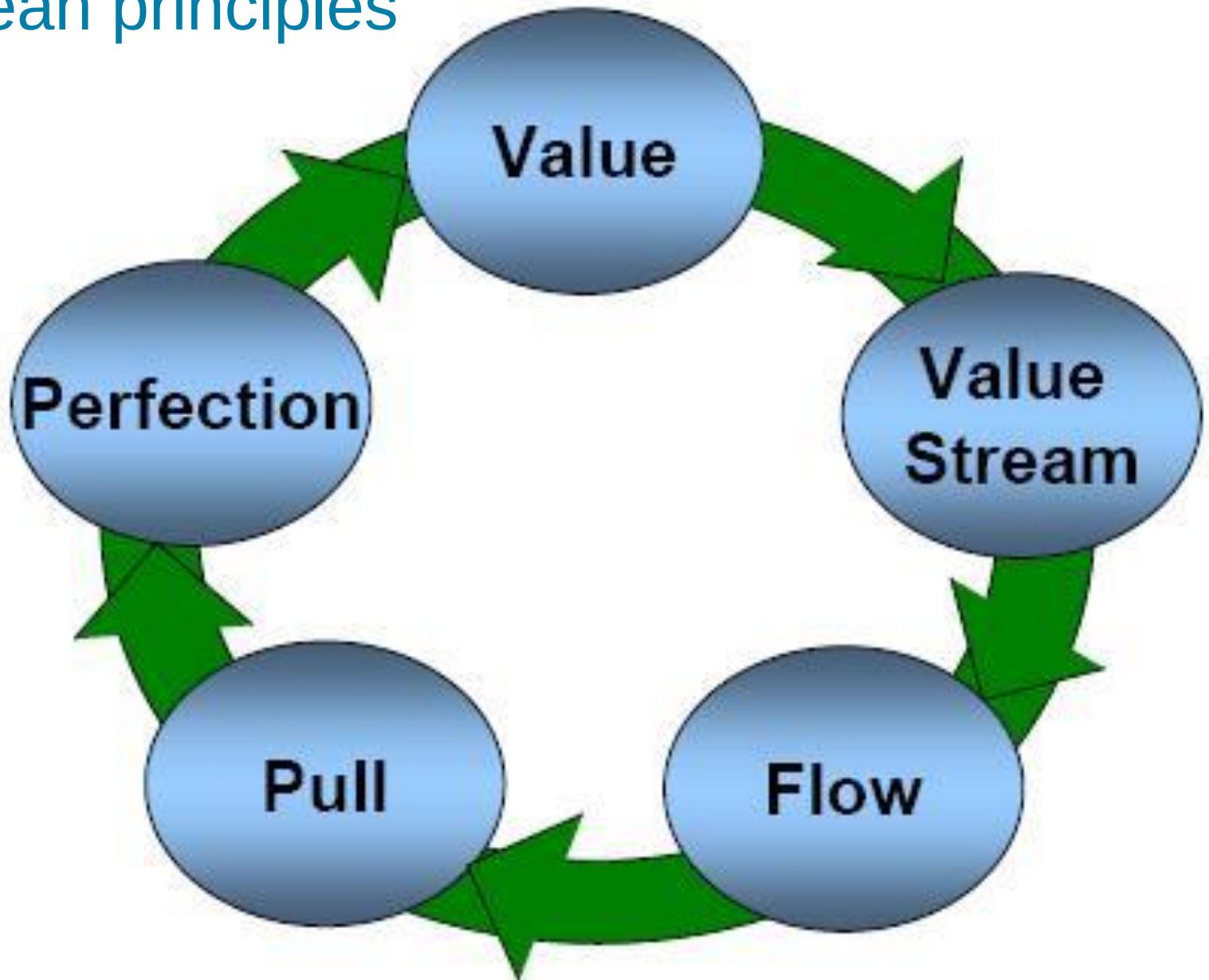
Vision 2011



LEAN THINKING ???



Lean principles



Value adding in traditional production process

Value adding

5 %

Not value adding

65-75%

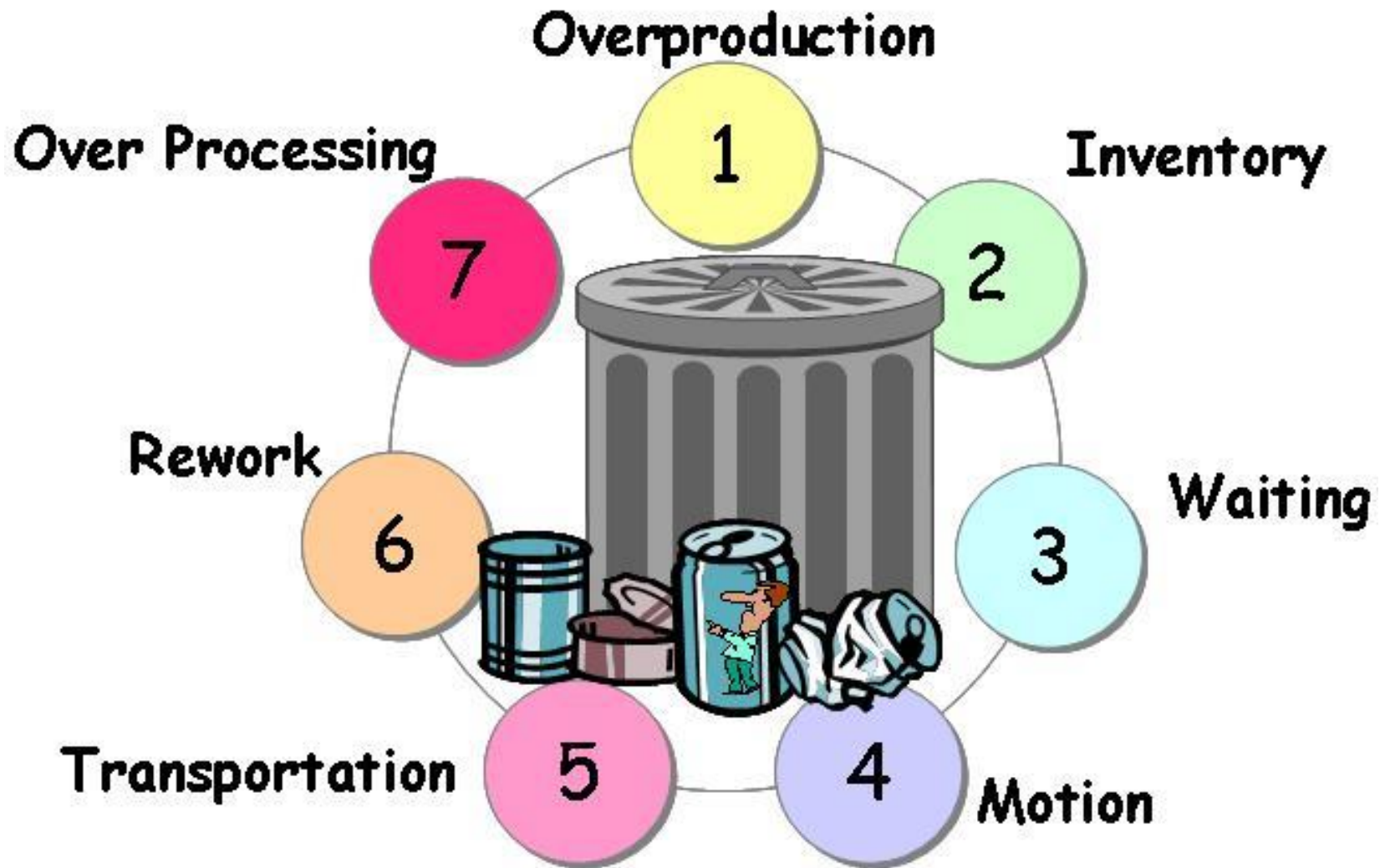


Necessary but
not value adding

Lean Focus

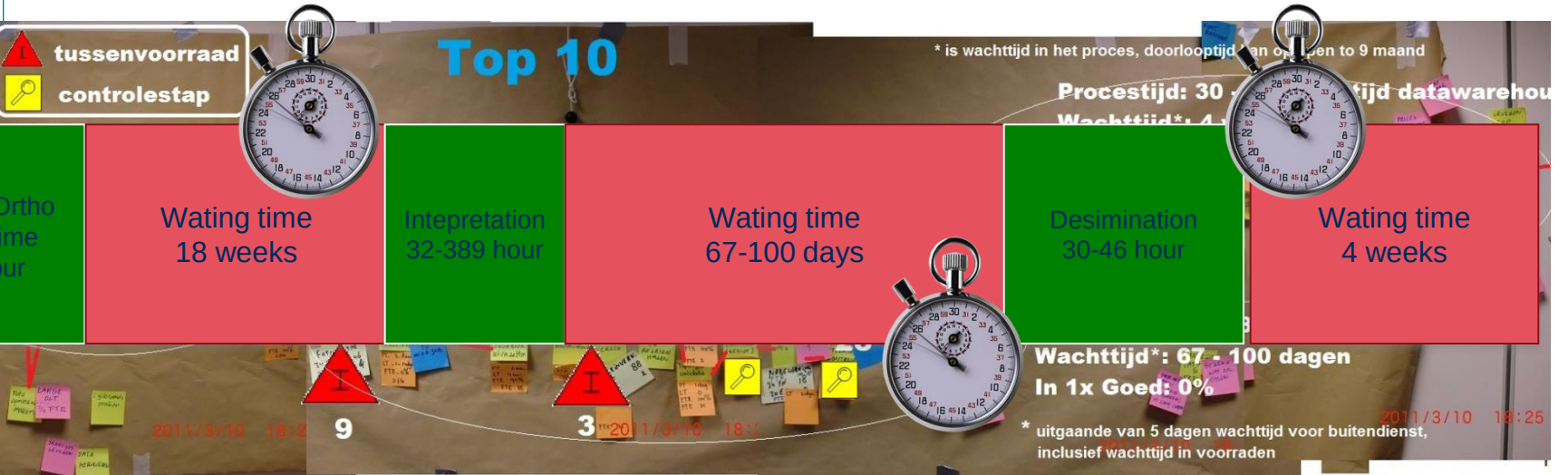
AUTO generalisation

The 7 Wastes



Current state 2011





 tussenvoorraad
 controlestep

* is wachttijd in het proces, doorlooptijd kan oplopen tot 9 maand

Desimination
30-46 hour

* uitgaande van 5 dagen wachttijd voor buitendienst, inclusief wachttijd in voorraden

2011/3/10 18:25

Interpretation
32-389 hour

voorraad = 2,8 maand
klantvraag

35

11/11/14

9

3

Manual
Generalisation
Cycle time
200-2500 hour

Desimination
30-46 hour

Procestijd: 202 - 2467 uur
Wachttijd: 74 dagen
In 1x Goed: 0% * Notabene

* Notabene 50D-blad

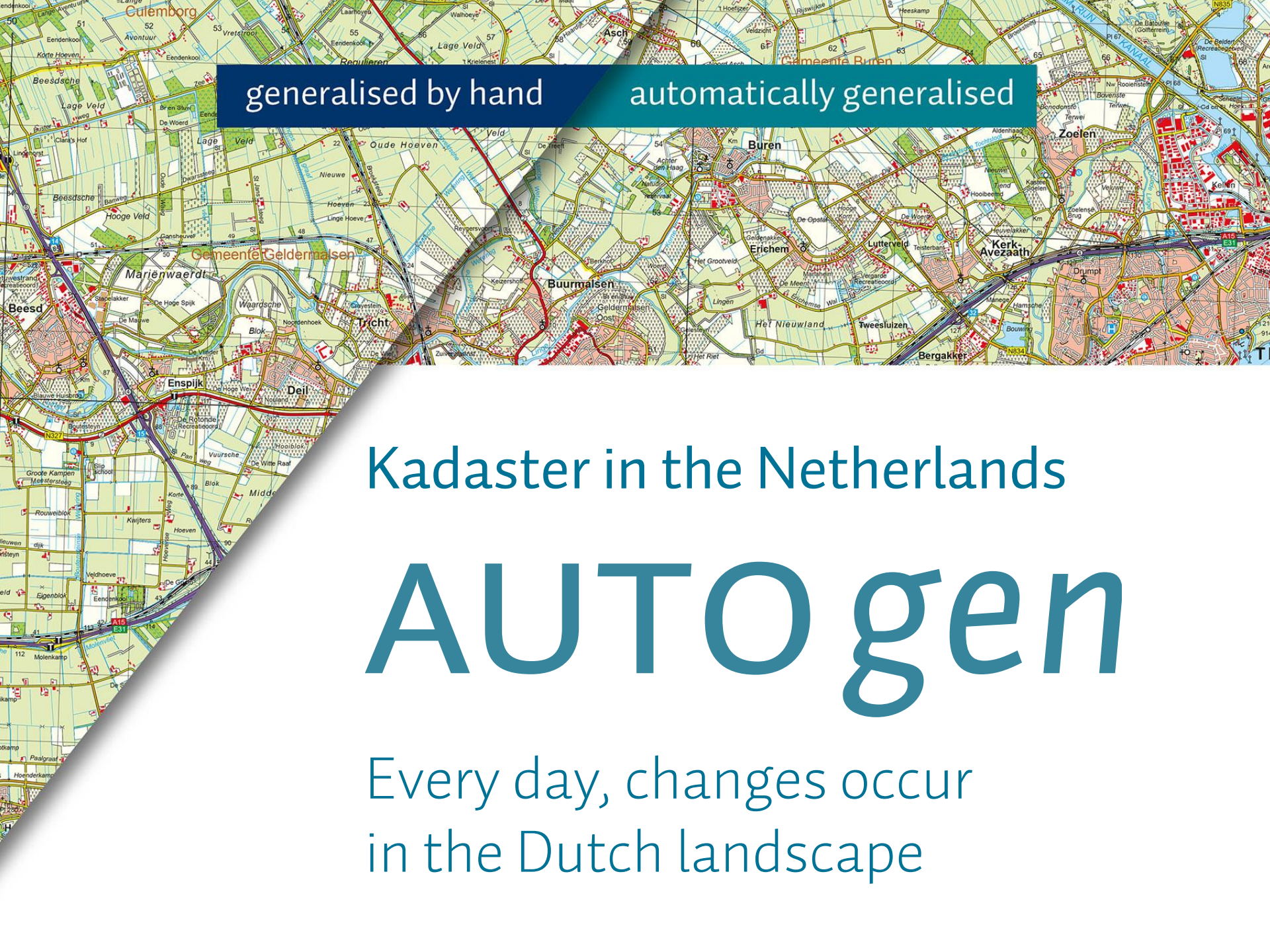
tussenvoorraden niet geïnventariseerd

g BRT 50D
t in kaart

Top 50 (en hoger)

Value adding

Kudusler



generalised by hand

automatically generalised

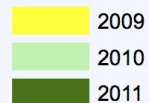
Kadaster in the Netherlands

AUTOgen

Every day, changes occur
in the Dutch landscape

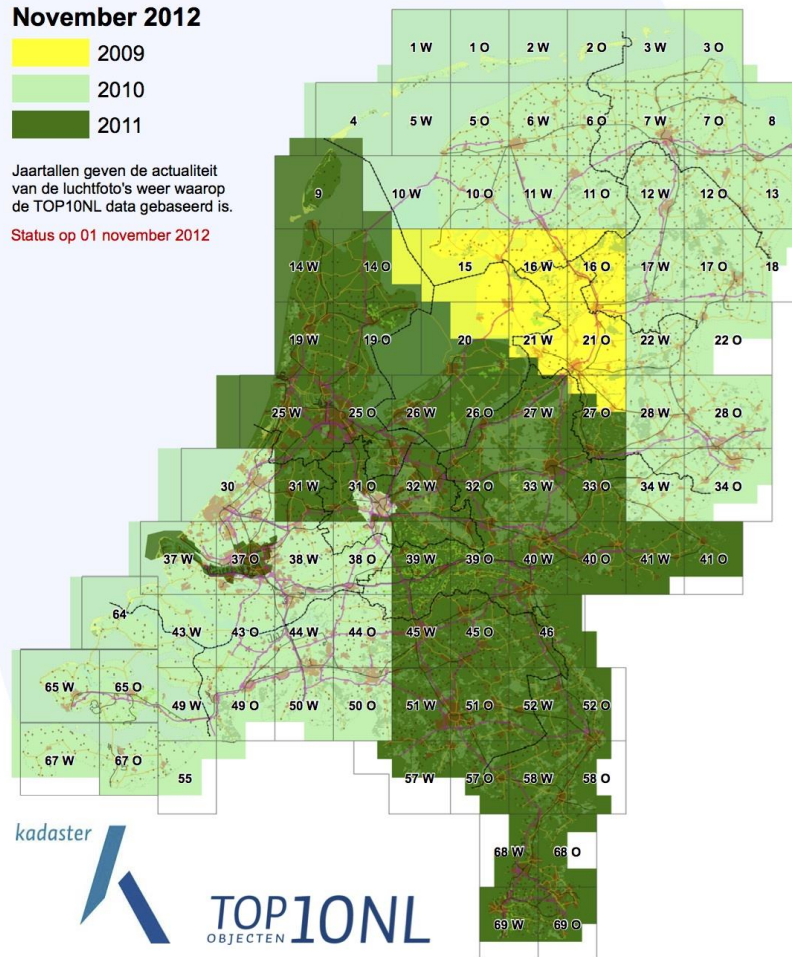
BRT ACTUALITEITSKAART: TOP10NL

November 2012



Jaartallen geven de actualiteit van de luchtfoto's weer waarop de TOP10NL data gebaseerd is.

Status op 01 november 2012

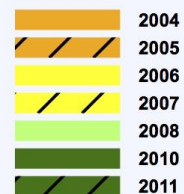


kadaster

TOP10NL
OBJECTEN

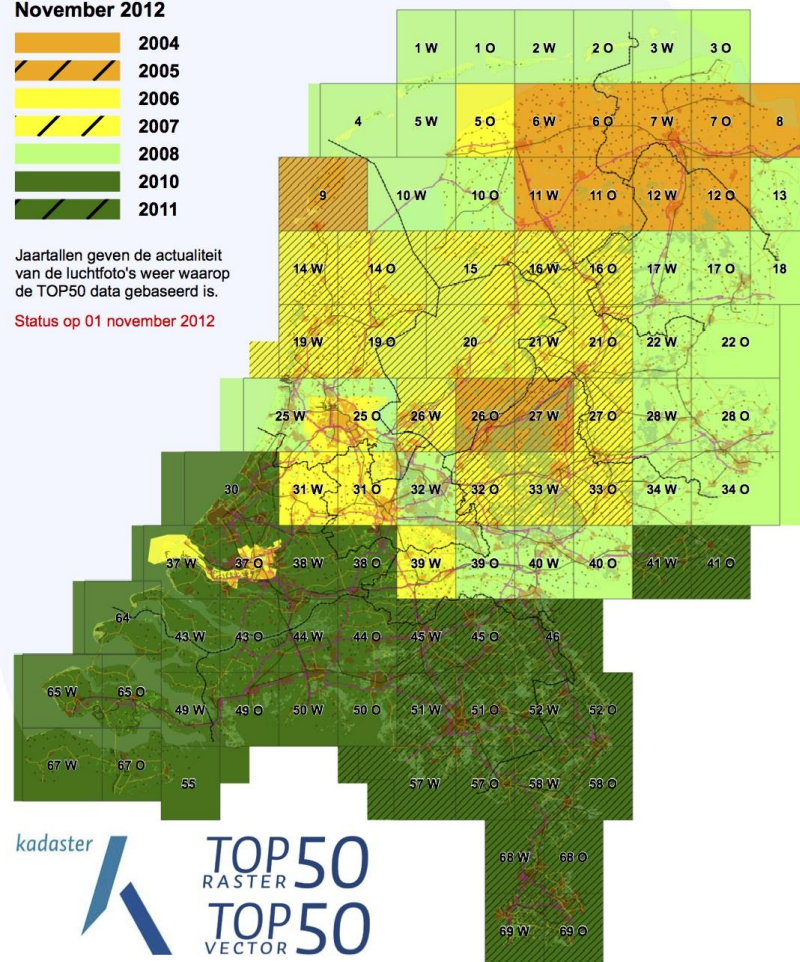
BRT ACTUALITEITSKAART: TOP50VECTOR / RASTER

November 2012



Jaartallen geven de actualiteit van de luchtfoto's weer waarop de TOP50 data gebaseerd is.

Status op 01 november 2012



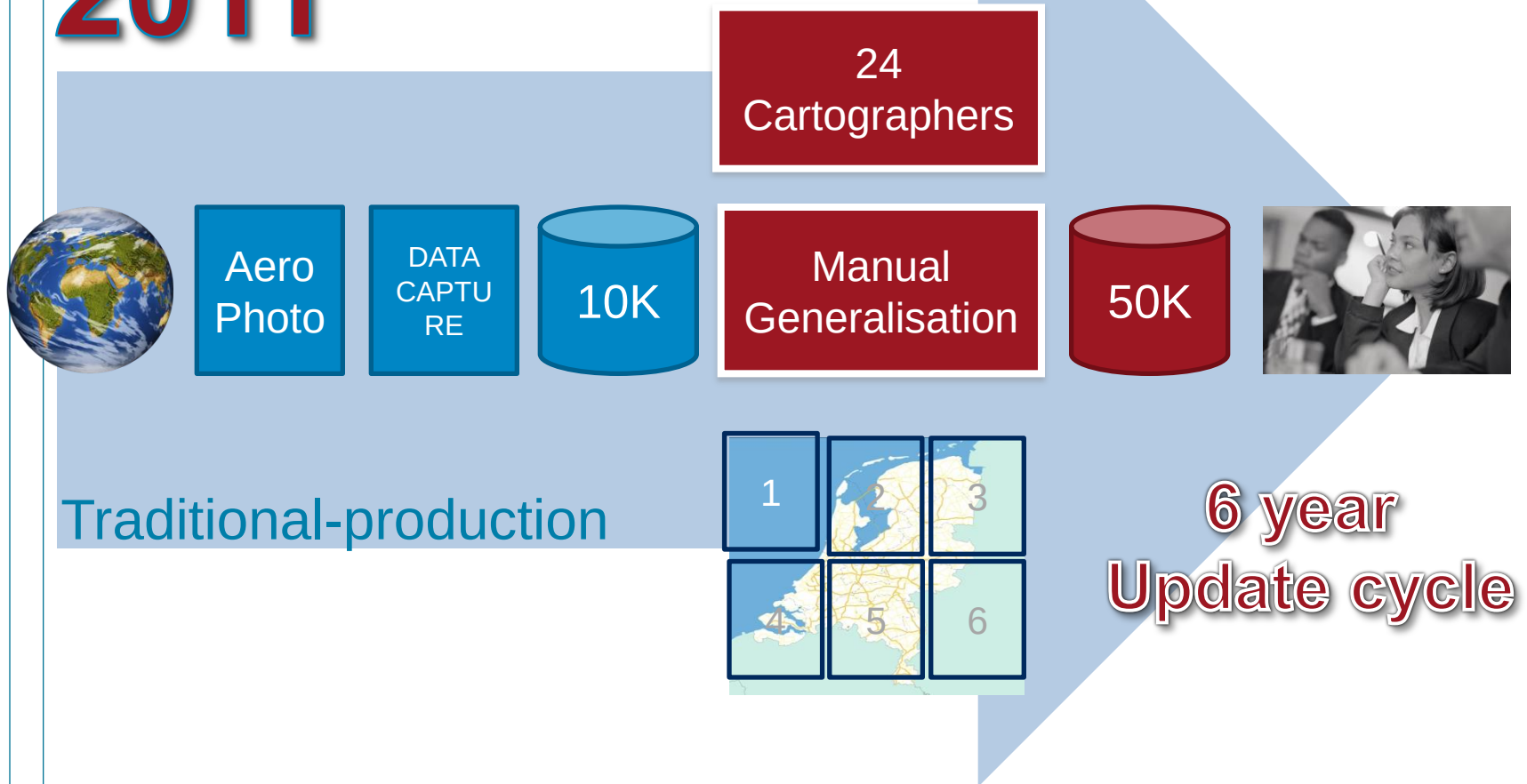
kadaster

TOP50
RASTER
TOP50
VECTOR

kadaster

Manual generalisation

2011



kadaster

AUTO generalisation

2013



Aero
Photo

DATA
CAPTU
RE

10K

AUTO
Generalisation

50K



0,5
Operator

LEAN-production

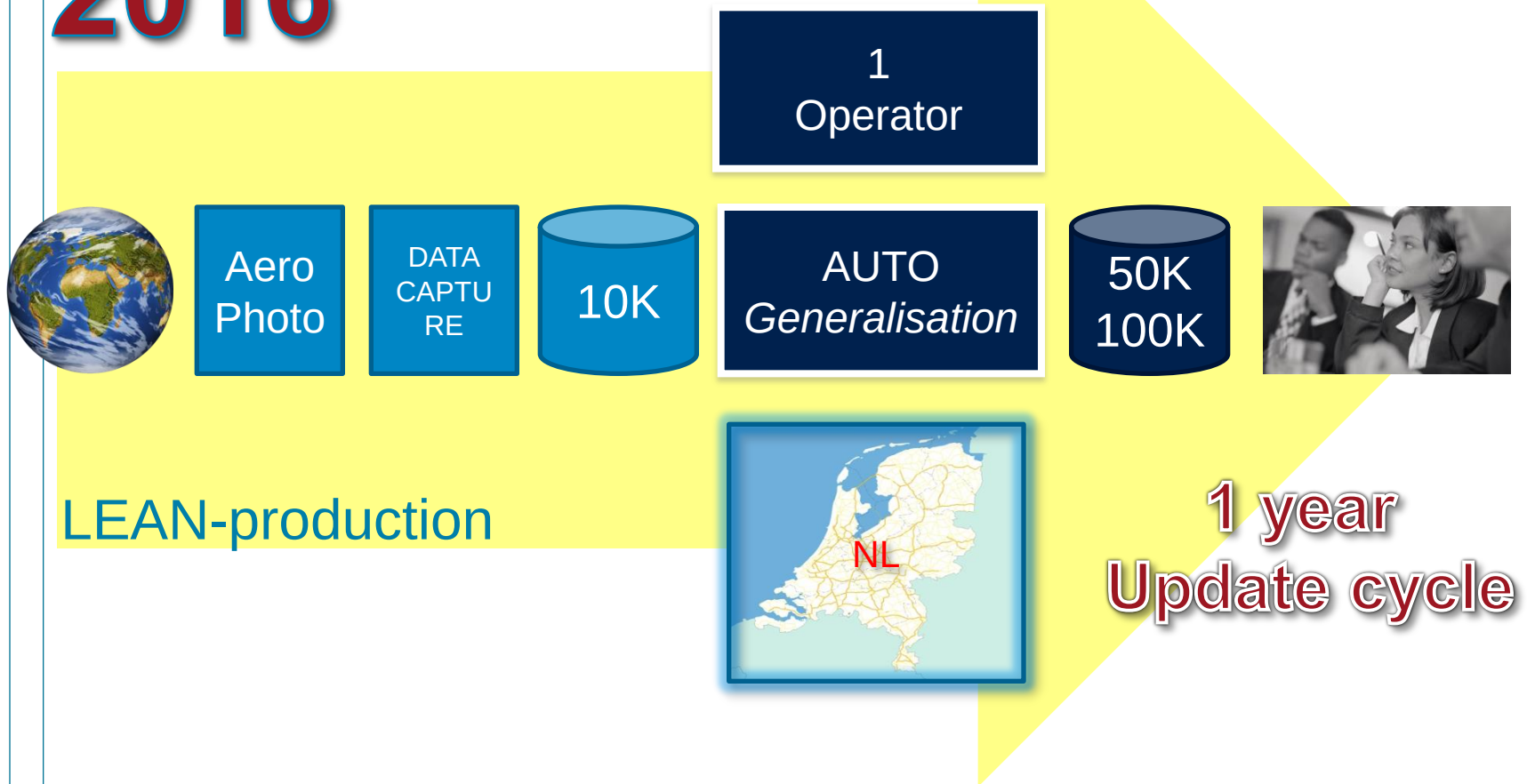


2 year
Update cycle

kadaster

AUTO generalisation

2016



kadaster

Release september 2016

25An Herzien op basis van luchtfoto 2015

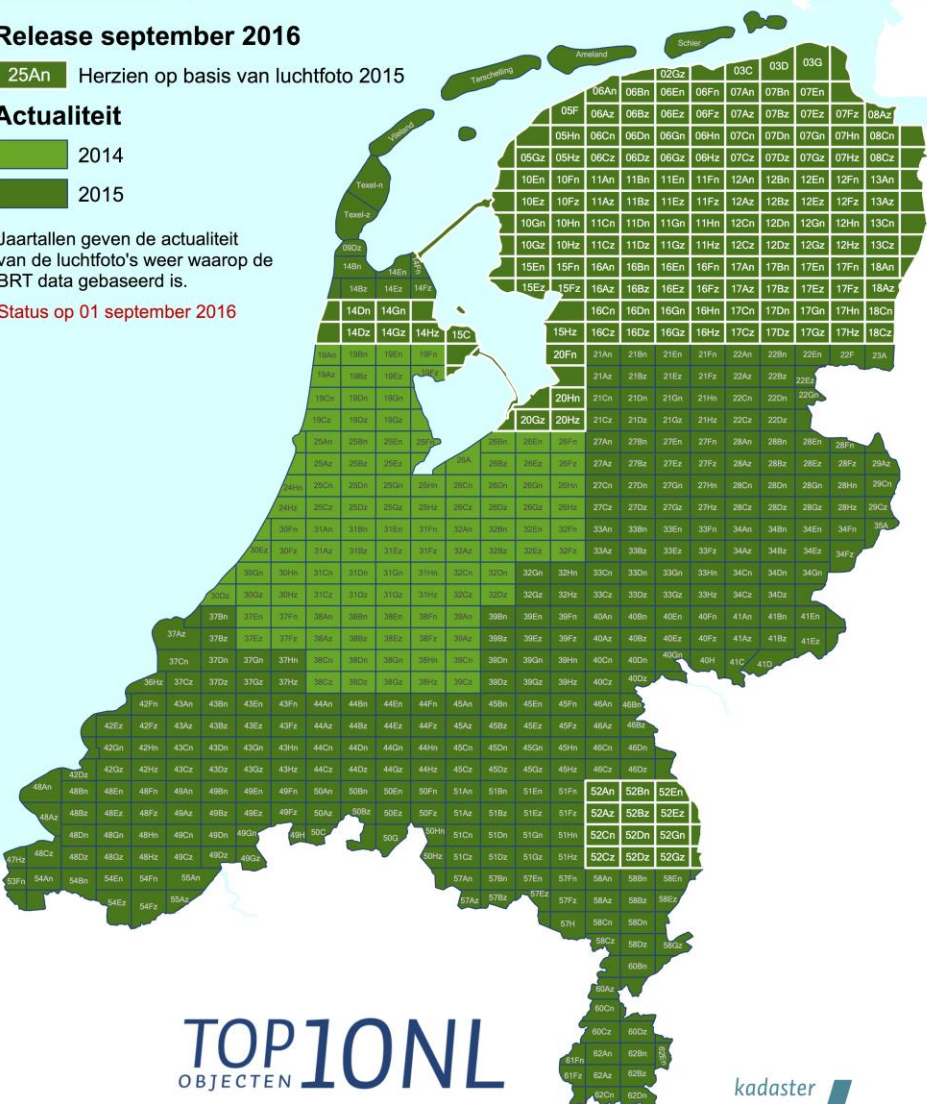
Actualiteit

2014

2015

Jaartallen geven de actualiteit van de luchtfoto's waarop de BRT data gebaseerd is.

Status op 01 september 2016



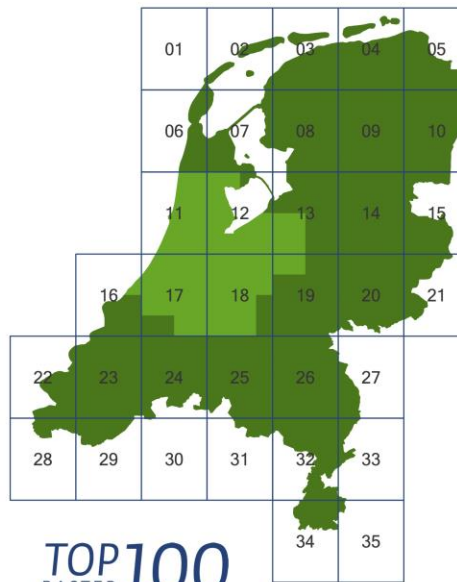
TOP10NL
OBJECTEN



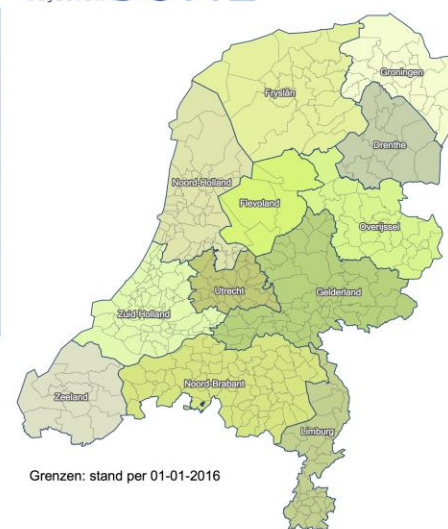
TOP25
RASTER



TOP50
RASTER
TOP50NL
OBJECTEN



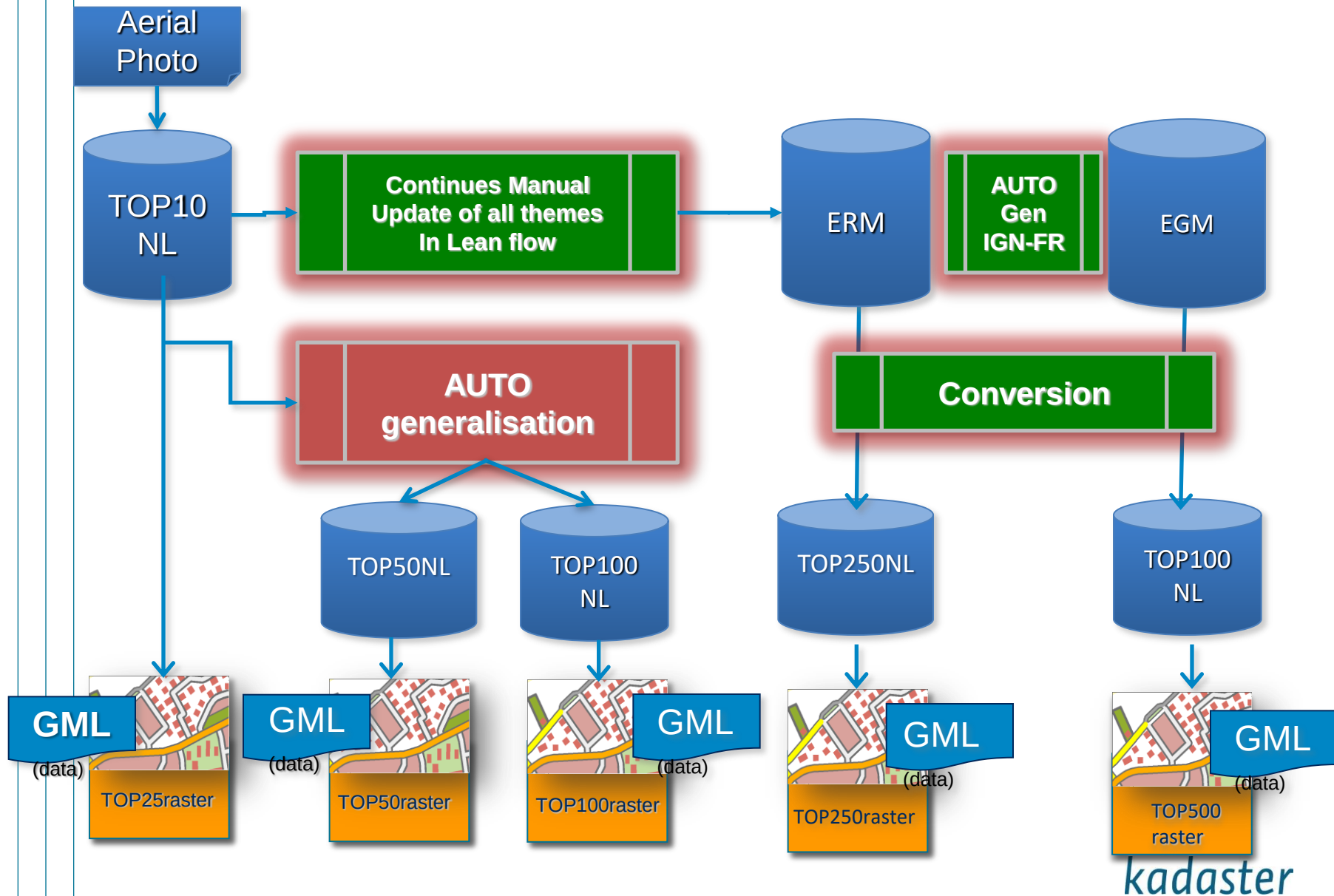
TOP100
RASTER



Grenzen: stand per 01-01-2016

TOPGRENZEN
OBJECTEN

Overview 2016



An aerial photograph of a historic European city, likely Bruges, Belgium. The image shows a dense cluster of buildings with red-tiled roofs, a large cathedral with a tall spire in the upper left, and a river winding through the city on the right. The text "Thank you" is overlaid in the center.

Thank you