



Ministerie van Binnenlandse Zaken en
Koninkrijksrelaties

Dutch government cloud

Dennis Kerssens (program director)
29 September 2016 at EURECA event





Agenda

- Why a governmental cloud?
- What is in scope?
- What do we implement and what is the effect on sustainability?
- Planning?
- Key takeaways!





Triggers for cloud strategy



Costcutting



*Any time
Any place,
Anywhere*



Security threats



Need for speed



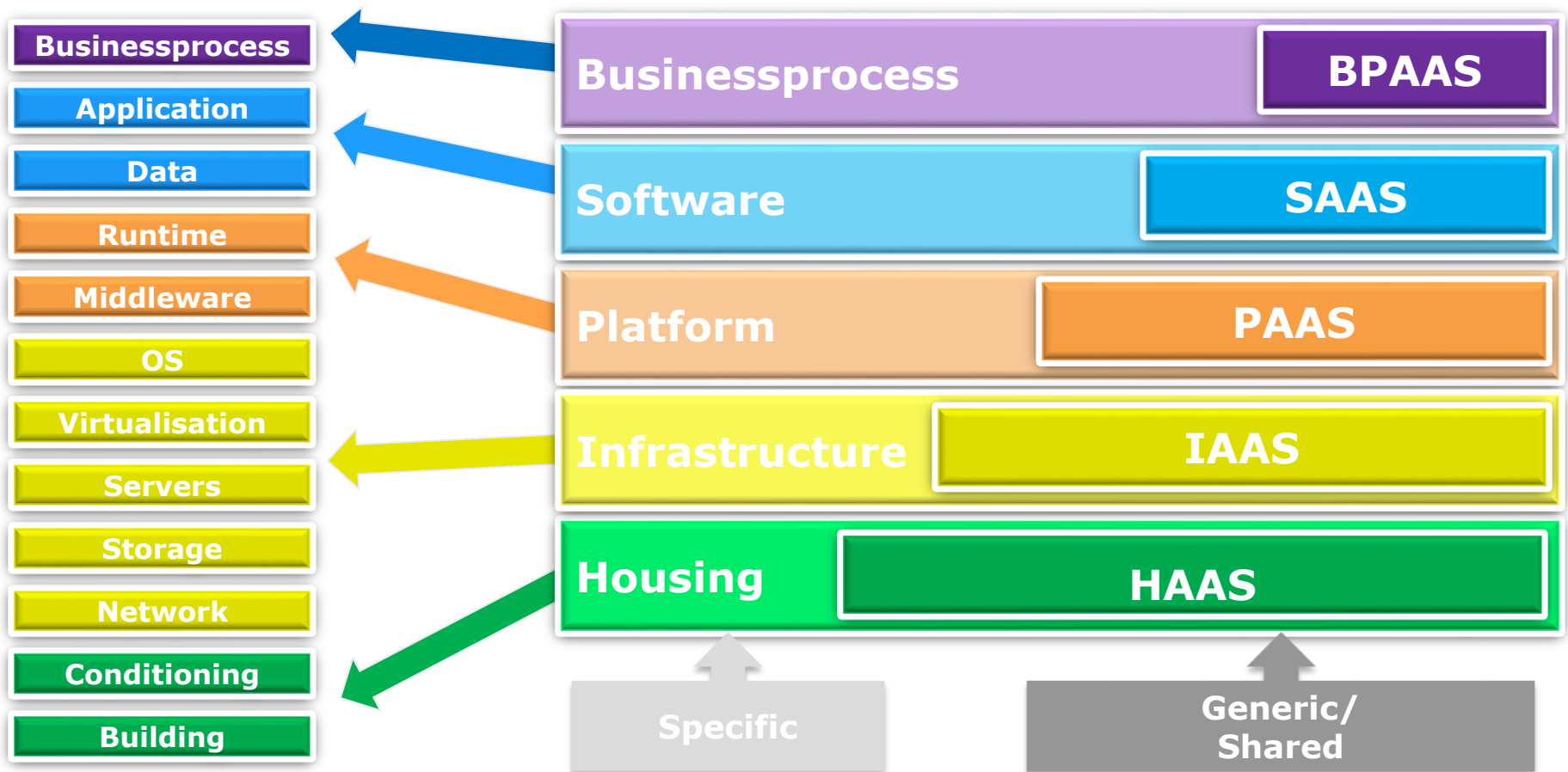
Sustainability



IT-trend / New technology

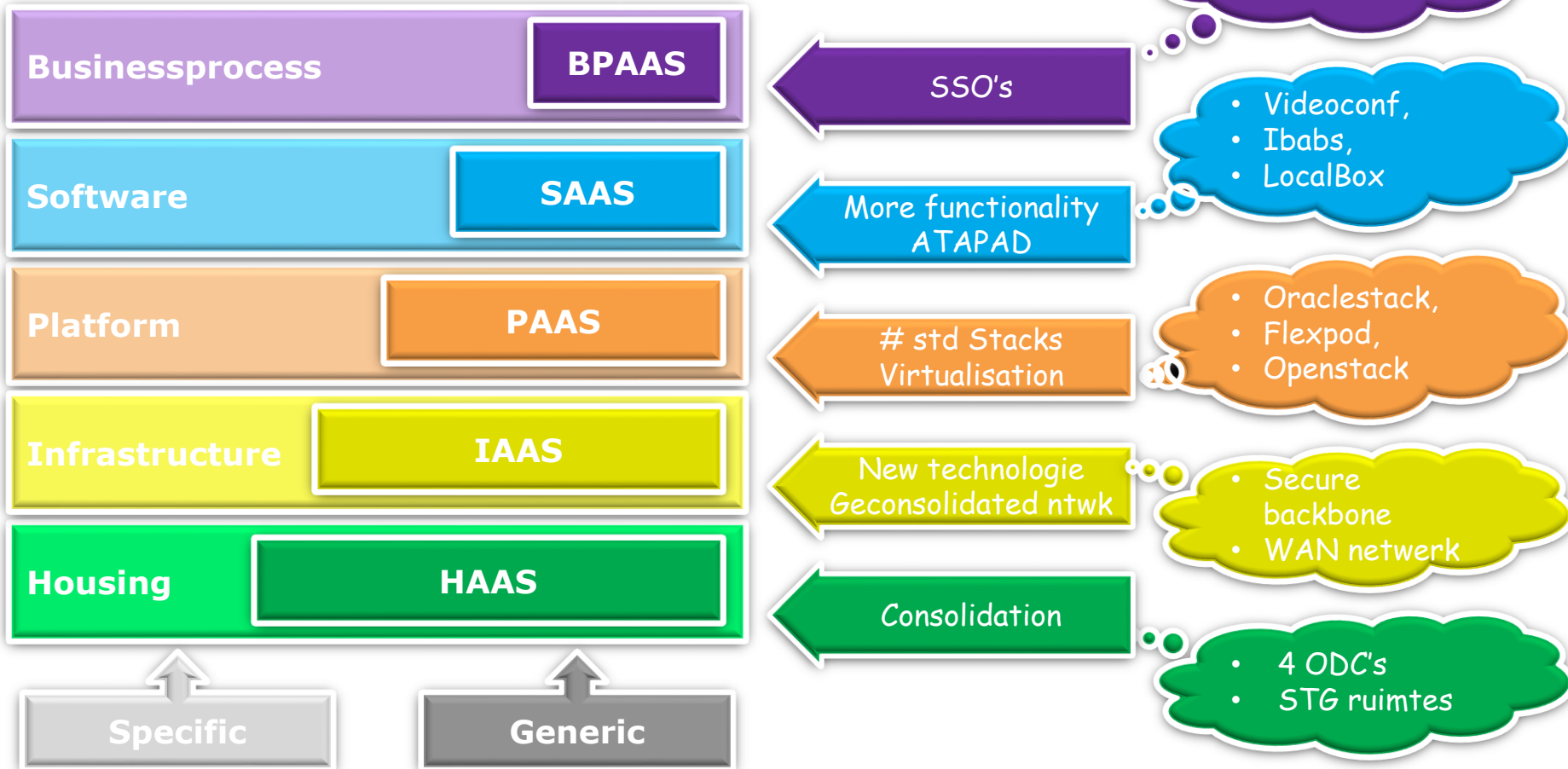


Referencemodel Cloud





Dutch government cloud-program





Housing

HAAS



- Algemene Zaken
- Buitenlandse Zaken
- Binnenlandse Zaken
- Defensie
- Economische Zaken
- Financiën
- ICTU
- Justitie
- Landbouw, Natuur en Voedselkwaliteit
- Onderwijs, Cultuur en Wetenschap
- Sociaal en Cultureel Planbureau
- Sociale Zaken en Werkgelegenheid
- Verkeer en Waterstaat
- Volksgezondheid, Welzijn en Sport
- Volkshuisvesting, Ruimtelijke Ordening en Milieu



Power consumption
• 235 GWh → 128 GWh
• PUE 2,3 → <1,25
(reduction = 32.000 households)



Datacenters
• 64 → 4
(room for 48 million terrabytes)

2 new modern locations (by design), 2 renovated locations

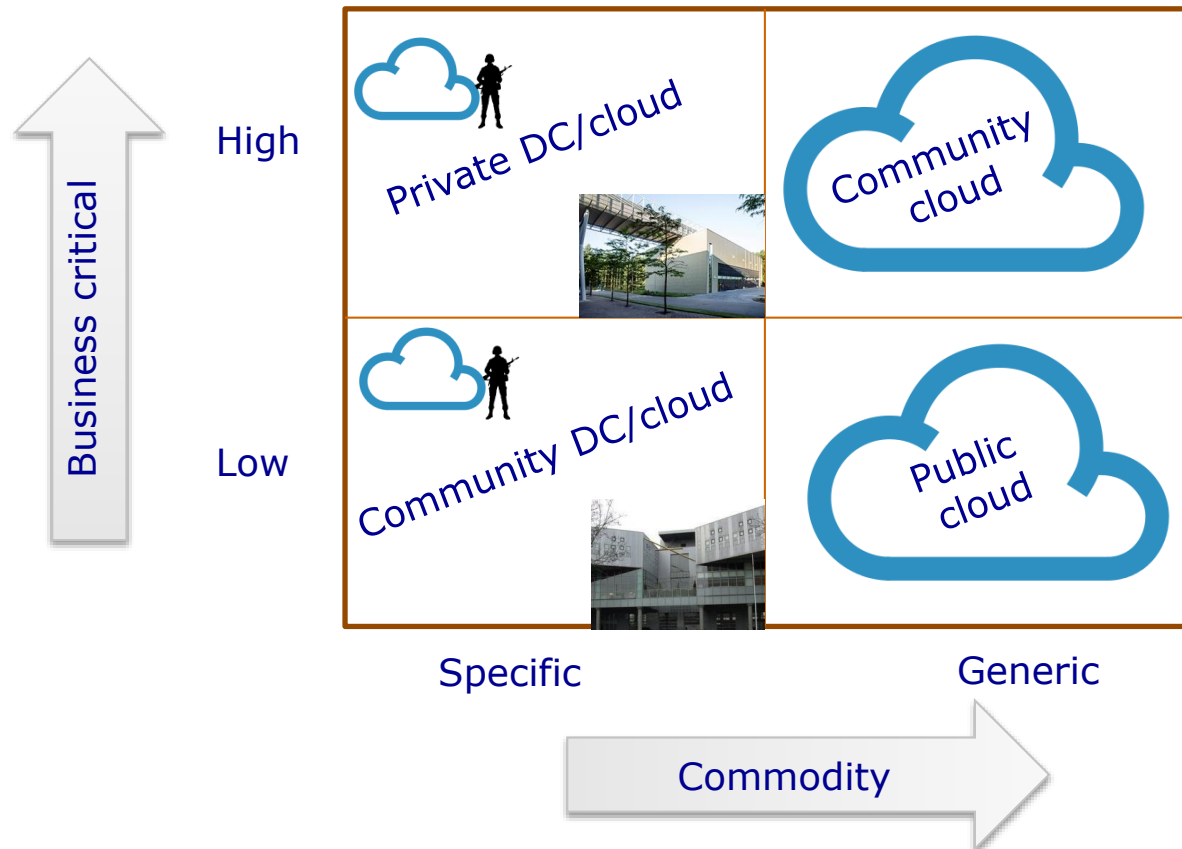
Reuse of warmth

Thermic cooling unto 26°C



Housing

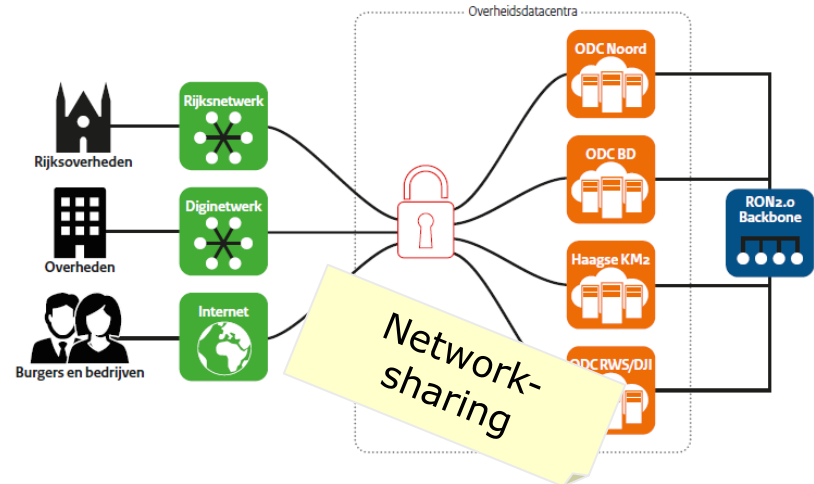
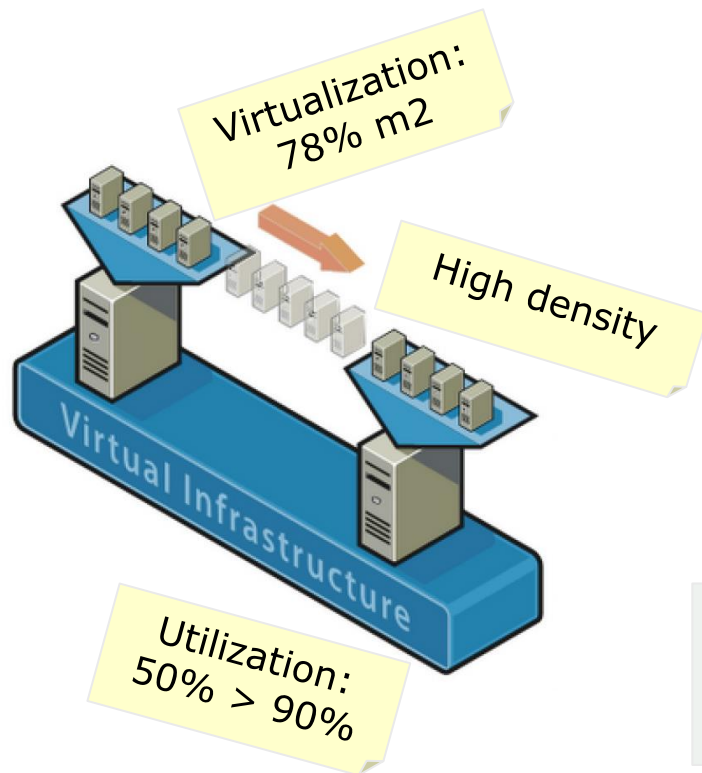
HAAS





Infrastructure

IAAS

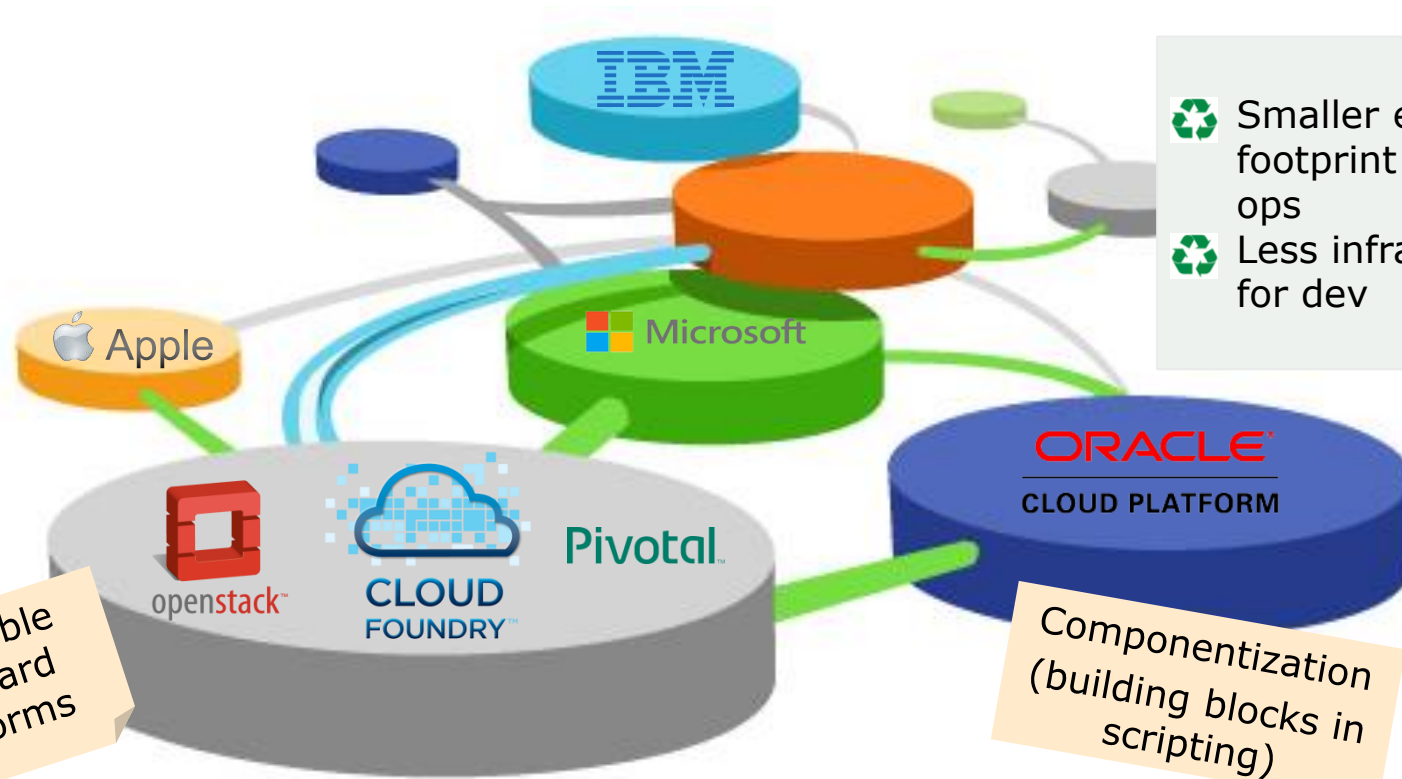


Less
machinery
and cables



Platform

PAAS





Software

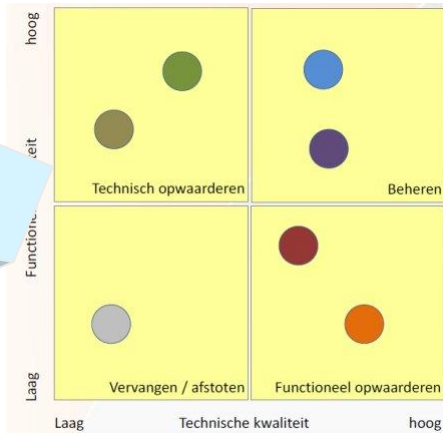
SAAS



Interdepartmental use



Application rationalization



Smaller energy footprint in dev & ops



Less infrastructure for dev

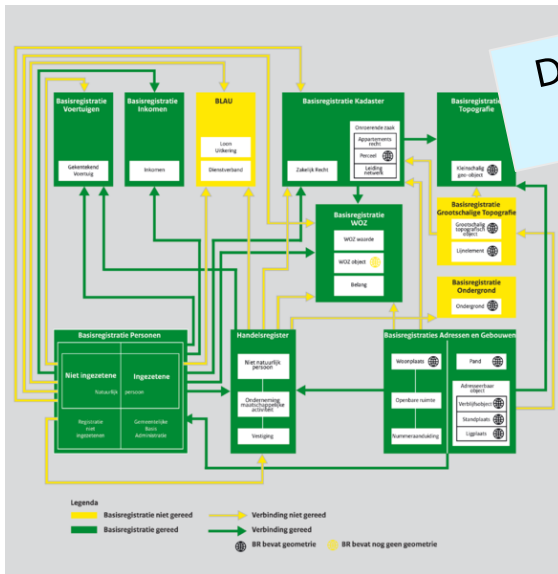


Businessprocess

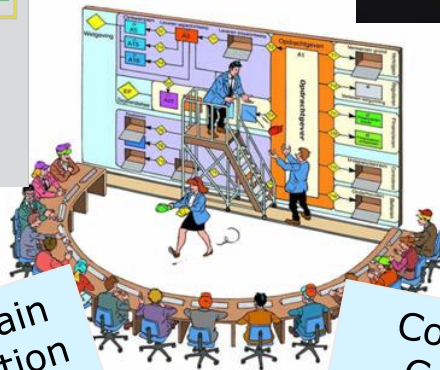
BPAAS



Data reuse



Any Time,
Any Place,
Any Device



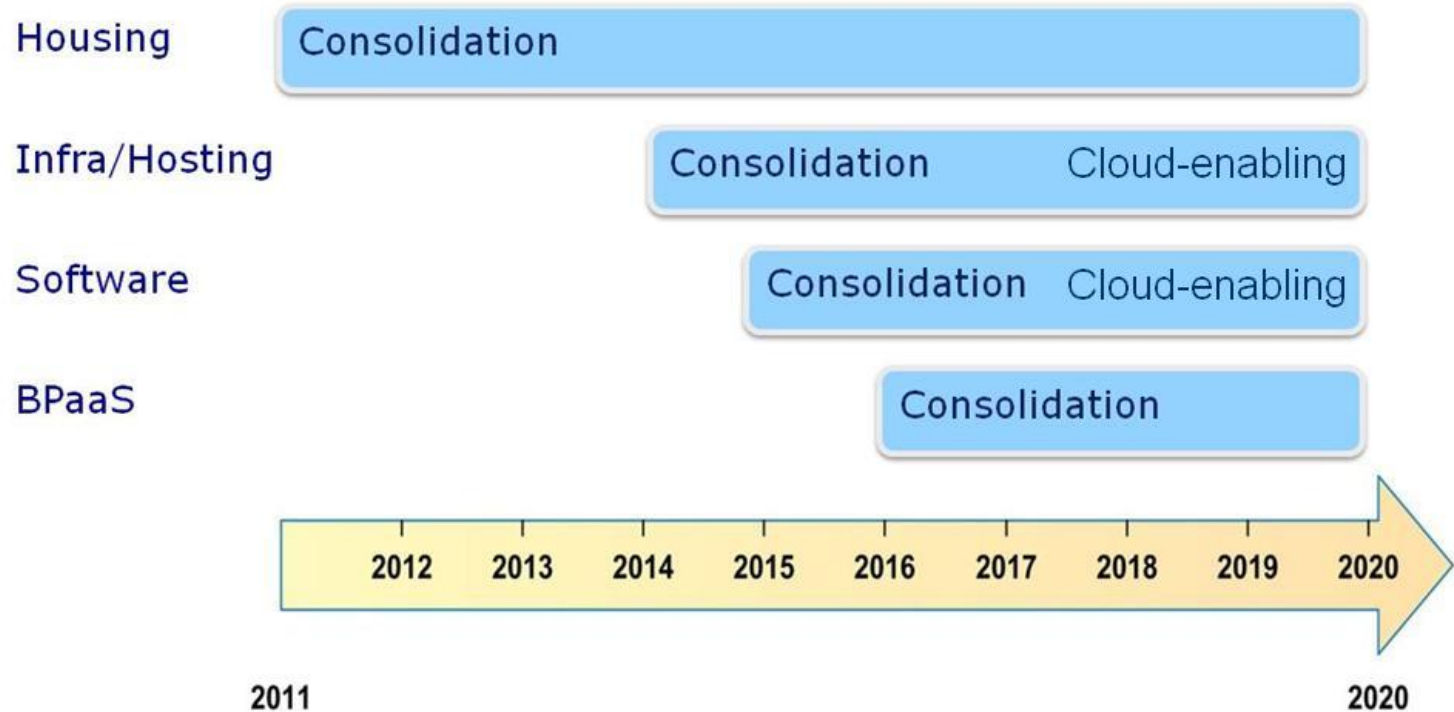
Value chain
optimization

Compact
Central
Government

- Less travel movement (reduction on CO²)
- Less storage



Planning





Key takeaways

Architecture:

- Step by step
 - Consolidated Datacenters
 - Consolidated Infrastructure
 - Rationalized Platforms
 - Rationalized Application
 - Rationalized Organization
- By design: less cost, more benefits
- Change via experiments
- Sustainability: integral approach (f.i. not only hardware optimization, but also code optimization)
- Sustainability KPI's in management contracts
- Change is driven by imposed budget reduction



-The End-