Quality in multimodal data and information chain

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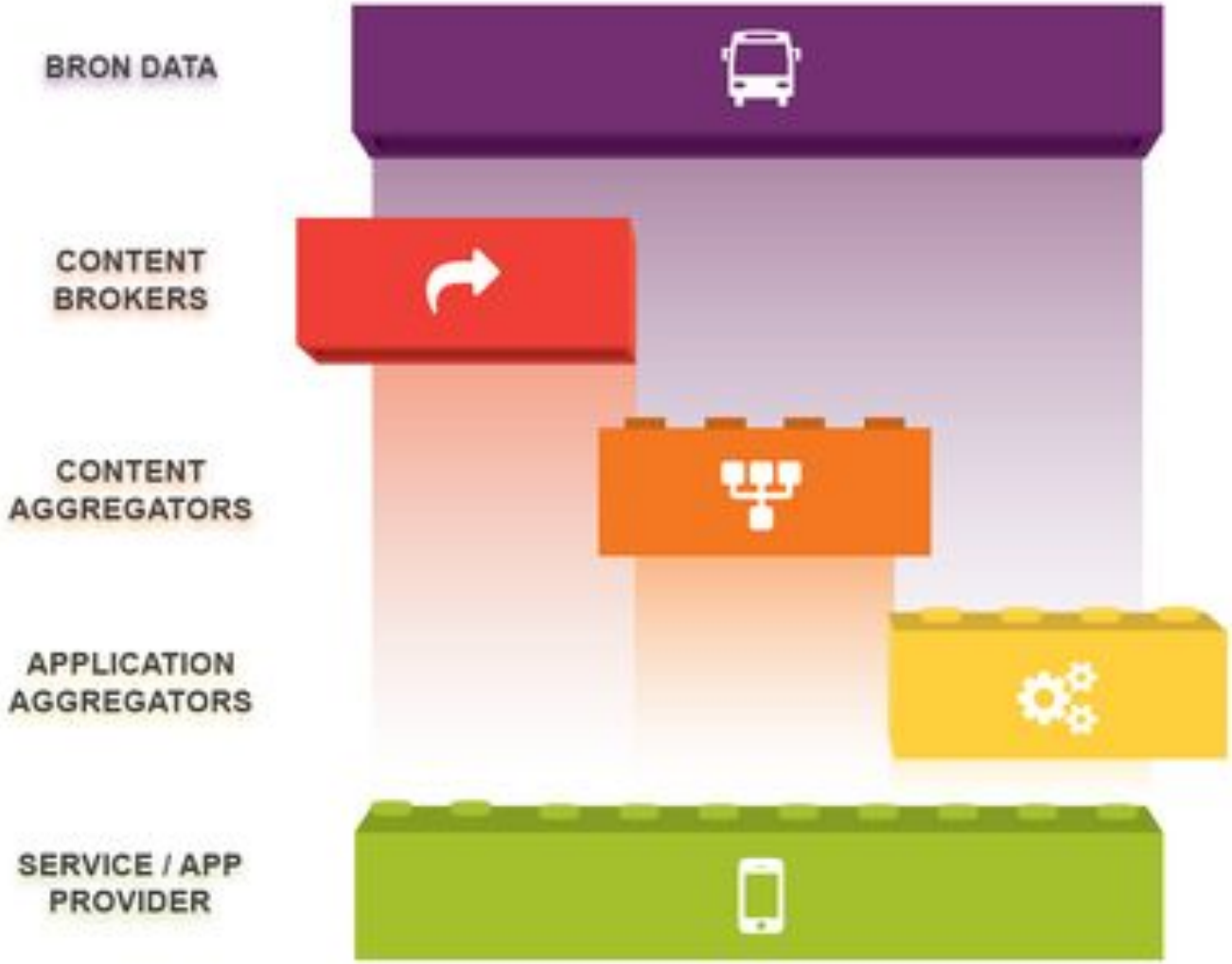

BRON DATA
CONTENT BROKERS
CONTENT AGGREGATORS
APPLICATION AGGREGATORS
SERVICE / APP PROVIDER

Status in The Netherlands

- key-registries for topography (maps) and topology (routing) for road & water, rail, government funded, authoritative, ***required*** to process feedback

- public transport access point**s** are private organisation, regulated by criteria such as maximum costs for service providers & technical availability.

- A *semi*-key-registry was created to facilitate a stop registry (IFOPT) containing addititical criteria such as accessibility information.

- Moving from national standards towards NeTEx / SIRI

Status in The Netherlands

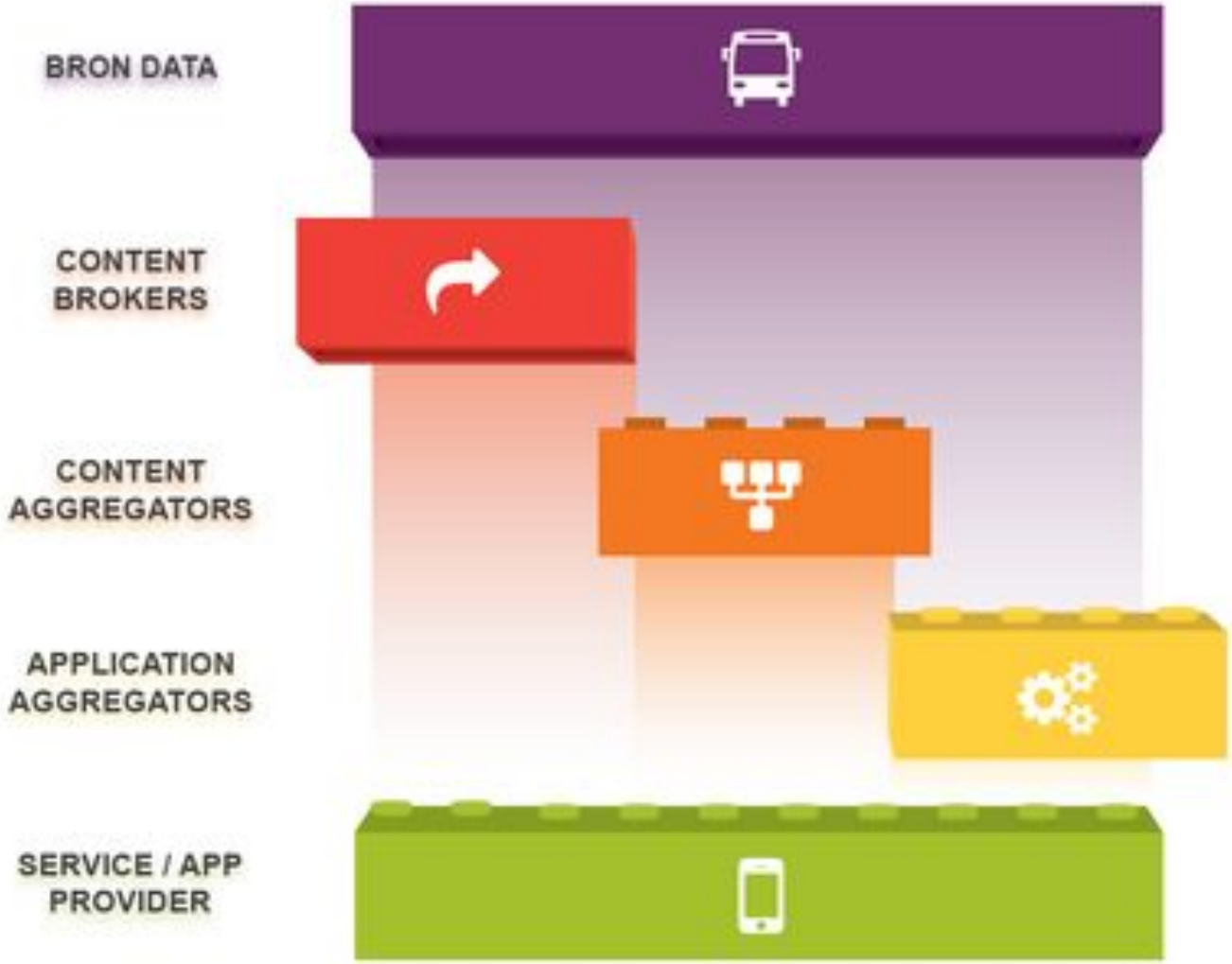
- A level playing field is available for all business opportunities, multiple organisations competing at multiple levels.

- We don’t believe in distributed journey planning giving a pareto optimal result, but share **all** data to build integrated planners.

- Other datasets such as *on-demand transport*, and flights (SkyTeam) are being shared as well.

Incident process

- A traveler reports an issue to the service provider
- A service provider will report the issue to its direct business partner
- Eventually issues are aggregated by the content broker / access point and send to the operator / agency.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Pro/Cons of the quality improvement

- New business and expertise is created, but had a very steep learning curve
- every party in the chain is implementing “similar patching”,
  but the agency is still responsible…
- Regulation is the **key issue**, different modes of transport have different regulators and quality of their regulation or required KPIs.
- KPIs are implemented to realtime check quantity and quality issues

URLs

All Dutch government open data sources including (geographical) key-registries
http://pdokviewer.pdok.nl/

Our technical availability for public transport (quantity)
https://zabbix.opengeo.nl/

Availability of real-time information (quality)
http://busplus.waarisdetrein.nl

Fancy visualisations
http://ovzoeker.nl (all realtime vehicle positions)
https://plannerstack-ptds.netlify.com/ (planning vs realtime in Marey + simulation)