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# Lessons from other sectors: data sharing in public transport

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Strengthening Agriculture and Food Data Governance webinar

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# Current views on data sharing in public transport

- Oxera partnered with UITP to conduct research on 'Sharing of Data in Public Transport - Value, Governance & Sustainability'. The study was co-funded by UITP and Land Transport Authority of Singapore.
- We consulted over 100 organisations from the public transport and data sectors through an online survey, two workshops, a roundtable discussion and five in-depth case studies.



Source: Oxera, UITP workshop in Stockholm, June 2019.

# Data has unique properties



Non-rivalrous



Positive and negative implications



More value with real time data



Value can depreciate with time



Value can change for same type of data



Value increase in quality



Has an acquisition cost



Non-depletable



Decreasing return to volume



Increasing return when combined with other data

Source: Oxera, UITP.

# Different valuation methods

**Financial impact on the parties sharing and receiving data**

+

**Non-financial impact on the parties sharing and receiving data**

+

**Externalities on the wider society**

Valuation methods based on cost for entity doing the valuation

Cost and benefits to the entity doing the valuation

Cost and benefits to society

**BREADTH OF PERSPECTIVES**

## Cost-based methods

Based on the costs of sharing data, including the assessment of the costs incurred to collect, store and share data, plus a reasonable return on these costs.

Examples:

- Modified Historical Cost method
- Consumption-based method

## Income-based methods

Based on the cash flow generated when using data. If used ex-ante it is based on forecasts. If used ex-post, it uses observed returns.

Examples:

- Business Model Maturity Index method
- Keep Research Data Safe method

## Externalities-based methods

Based on the externalities created through data sharing. These can be quantitative or qualitative assessment of selected externalities.

Examples:

- Changes in environmental outcomes
- Changes in time savings

## Market-based methods

Market methods assess users' willingness to pay and data providers' willingness to accept to exchange data. Therefore, the method is useful when data have or could become marketable.

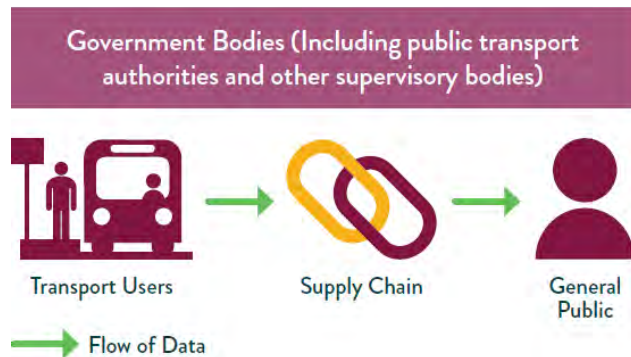
Examples:

- Revealed preferences
- Stated preferences

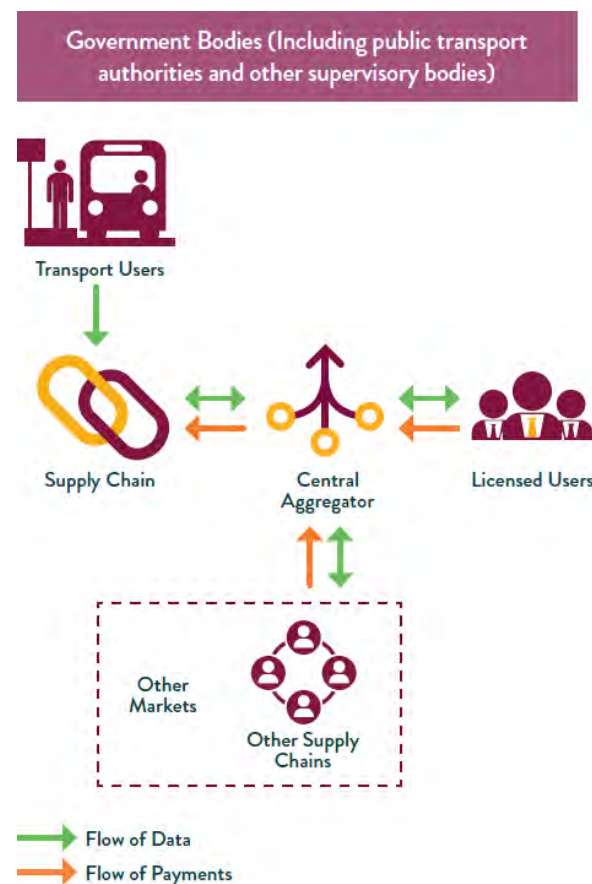
Source: Oxera, UITP.

# There is no one size-fits-all data sharing model

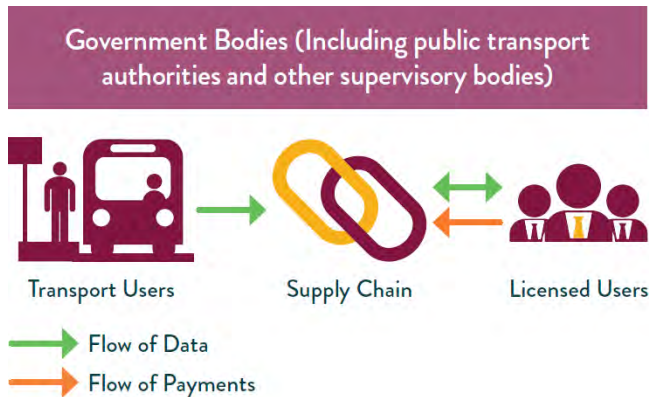
## Open data



## Multilateral restricted model

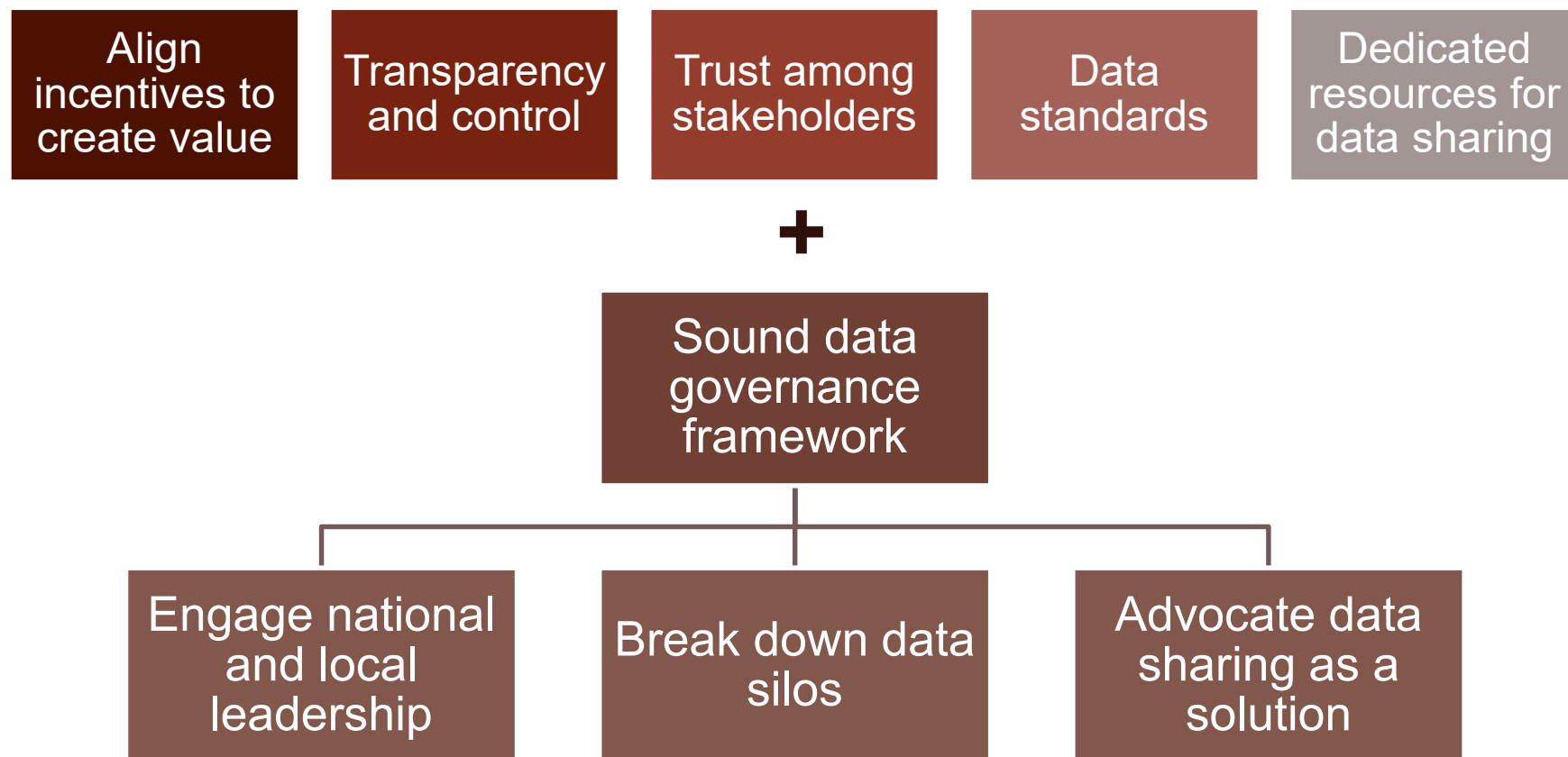


## Bilateral restricted model



Source: Oxera, UITP.

# Ways forward in the public transport sector



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