

# National Transport Satellite Accounts a French experience

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# Transport Satellite Accounts. But why ?

Satellite accounts remain to supplement national accounts rather than replace it, focusing on specificity of the analysed segment.

## Incomplete Approach of transport in the National Accounts

- need for better breakdown by mode, more understandable by transport industry
- need to enlarge the transport « function » in order to measure all transport activities (including traffic police, public road lighting, ...)
- need that the estimates are not affected when firms or households switch from in-house to for-hire services
- need to characterize and measure all transportation activities, including non-market activities

# Transport Satellite Accounts. But why ?

## Major adress :

How much do transportation services contribute to French GDP ?

How much does transportation cost to the nation ?

What is the public contribution in financing transportation ?

Which is the proportion of the different mode in spendings ?

## Related questions

- 1) Breakdown national / regional government expenses
- 2) Are there evidence for political cycles in infrastructure spendings ?
- 3) Guideline to cost / benefit analysis, especially concerning public road spendings and earnings.

# Transport Satellite Accounts. But why ?

## Transportation at a glance :

- \* TSA delivers 3 synthetical aggregates (CTS, ITS, TTS)
- \* Gather all spendings related to transportation in a single aggregate (TTS), regardless of Central Classification of products
- \* Aggregated series (2005-2011 for now) can be related to GDP.

## Transportation in details :

- \* Is there evidence of mode shifts in years, medium / long-term ?

# What exactly is «transport» ?

*The activity of transport consists in moving, using a **vehicle**, goods or people from a point to an other one, with **another purpose** than the transport itself*

**Counter-examples** : cruises, driving school, cabotage

# What exactly is «transport» ?

## Characteristic activities : « typical of the field » (SNA 2008, chap. 29)

- Freight,
- Operational road infrastructure,
- Logistic, ...

## Ancillary activities : not typical, but come along

- Security,
- Handling, ...

# What does NOT provides French transports SNA ?

- Only values, not volumes
- No Input-Output table
- Nothing on pipeline
- Not yet taking into account externalities
- ...

# How is satellite accounts built ?

## Concepts

- **What is transported ?** goods & people  
(no energy, nor datas, ...)
- **5 + 1  $\approx$  6 modes of transportation**
  - Highway - railway - air - sea - inland waterways -
  - + Urban collective transport (hybrid mode)
- **Who provides / benefit of transportation ?**  
Usual national accounts institutional sectors
  - Public administration,
  - Non financial corporations (transport industry and others),
  - Households,
  - RoW



# Concepts

- **Current transport spendings (CTS)**
  - Travel ticket purchase, subsidies, households in-house spendings, ...
  - Maintenance, tolls (road, rail, airports ), ...
- **+ Investment Transportation spendings (ITS)**
  - Road construction, aircraft purchase, ...
- **{ - double accounts**
  - Some incomes from CTS activities contribute to ITS (benefits) }
- **= Total Transportation Spendings (TTS)**
  - to be compare to GDP

# How is satellite accounts built ?

## Sources :

- **National accounts : household spendings, equipment Gross Fixed Capital Formation (GFCF).** Provider : *Insee*
- **Companies accounts figures .** Provider : *ESANE, Insee.*
- **Detailed Central and local government spendings.** Provider : DGFIP (finance ministry),  Stif (Transport authority for Île-de-France region) 

- **Activity figures of main Infrastructure managers :**

- AdP (and other airports),
- VnF (inland waterways),
- RFF (rail), main harbours.



Provider : DGITM (transport ministry)



# Main results.

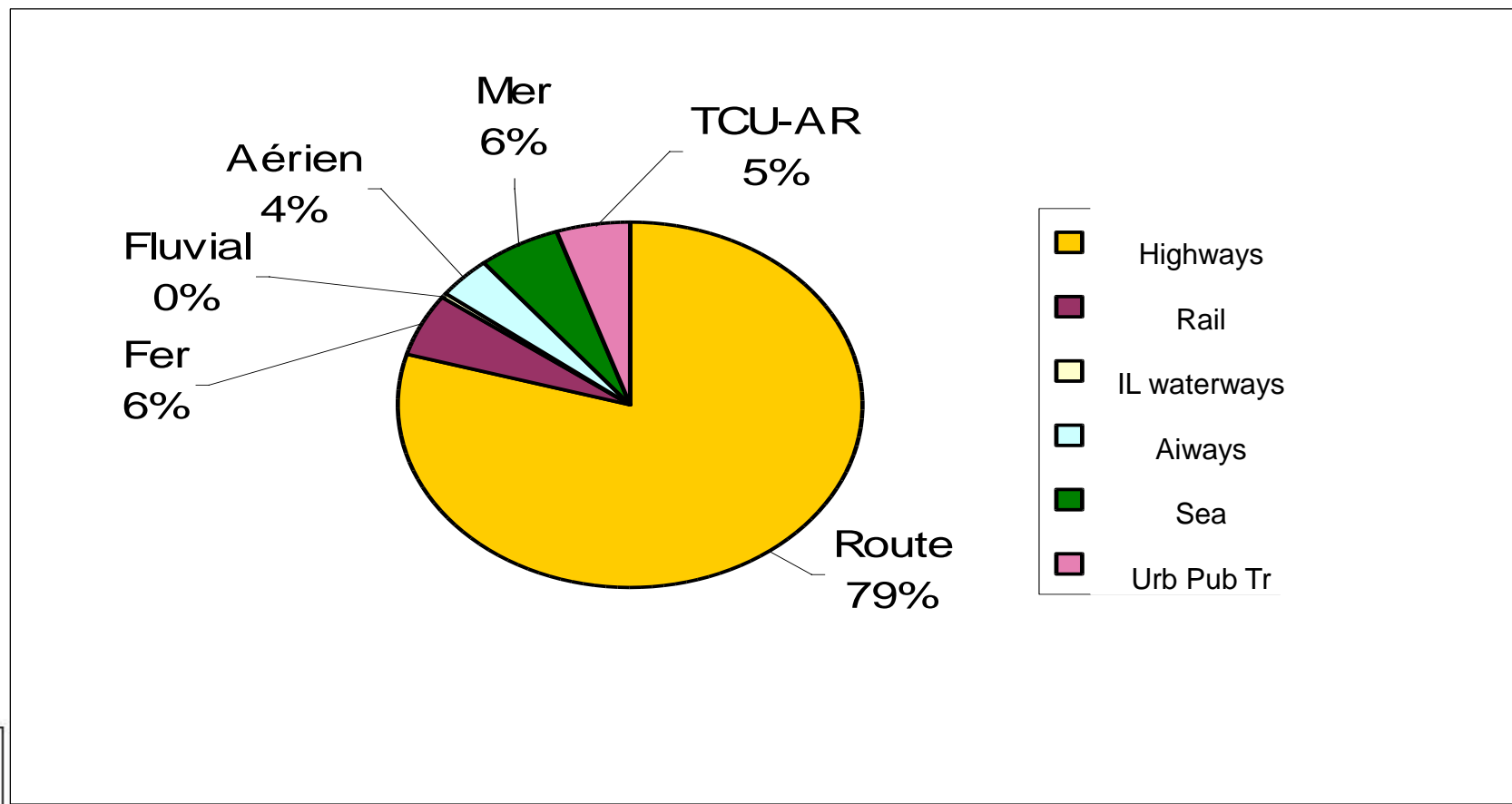
Contribution of transport to GDP : Total transport spending (TTS) 18,6 % of the GDP

TTS = Current Transport Spending (CTS) for the greater part : 338 B in 2011,  
+ Investment Transport Spending (ITS) : 57 B€.



# Main results.

Most of the spendings (CTS) for Highways (79 %)

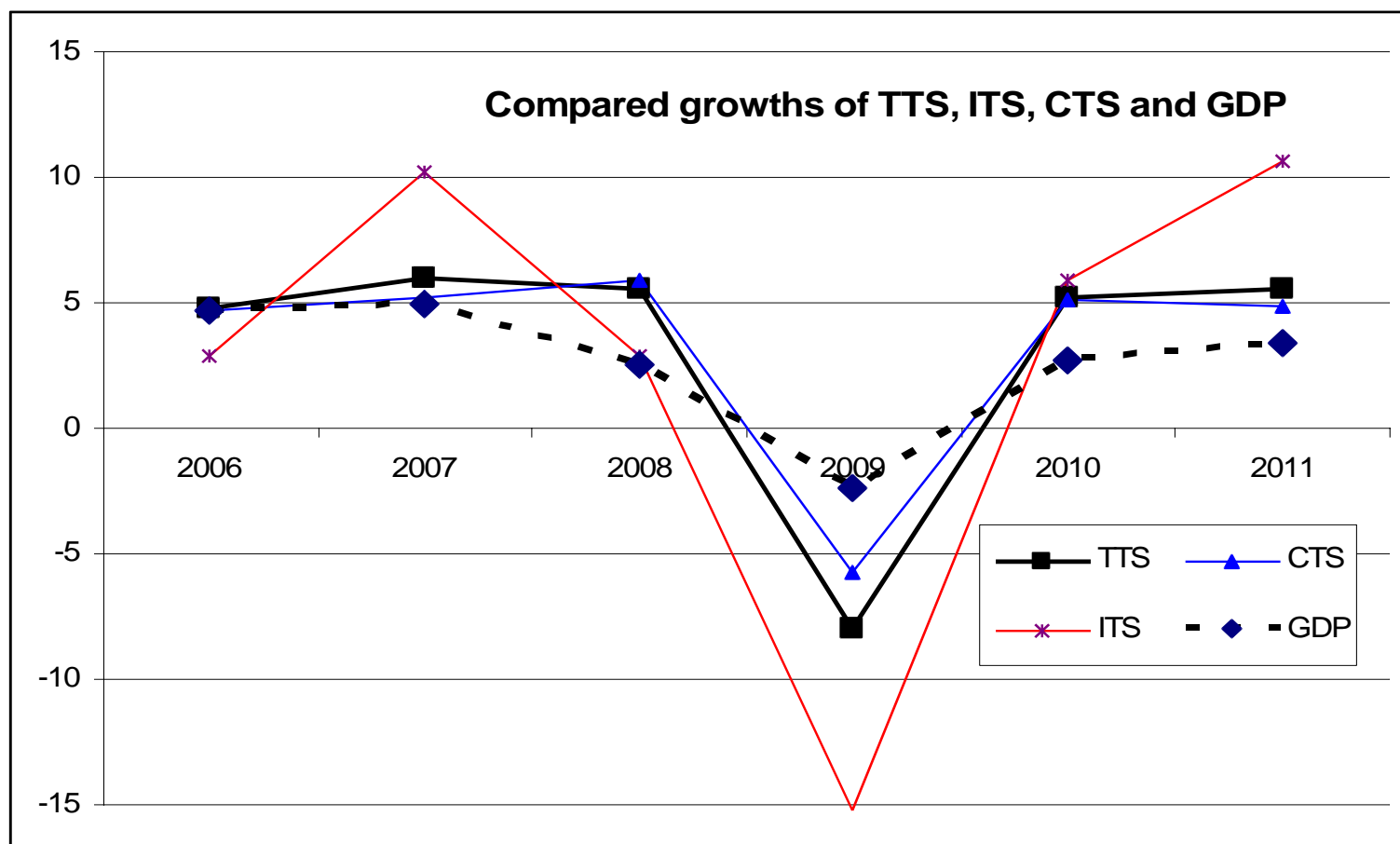


# Main results :

TTS Rised in 2011 (+ 5,6 %), at a higher pace than the GDP in value (+3,3 %).

Since 2005, its average annual growth has has been reaching 3,0 % , slightly higher than the GDP did. (+ 2,6 %).

Seems to magnifie GDP movements, as economic theory may predict.



**Thank you for your attention**



# How do we deal with all of this ?

- 1 full time person, for less than 6 months.
- Works with ... excels sheets !
- Which is possible thanks to number, quality and structured sources !
- Improving a specific tool.