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Urban Logistics in the light of sustainable development, A long way to go

Danièle Patier, Jean-Louis Routhier
Lyon, France



ENTPE
L'école de l'aménagement durable des territoires



— université
— lumière
— LYON 2

Taking into account mobility in urban policies

The french Case

- Comparative evolution of the mobility of people and goods in public policies
- Analysis through a timeline of their development
- Progress to be made and measures for a sustainable development

Chronology

Prehistory

Survival,
security,
hygiene

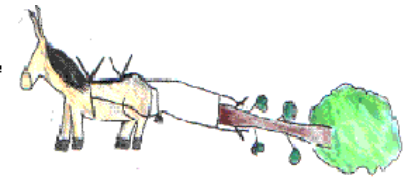
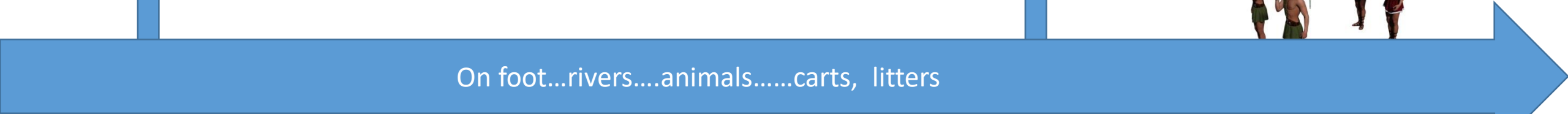
Nomadism



Antiquity

Climate change
agriculture

Demography
Urbanity



Rome bans carts after sunrise (noise)...not change since!

Chronology

Middle Age

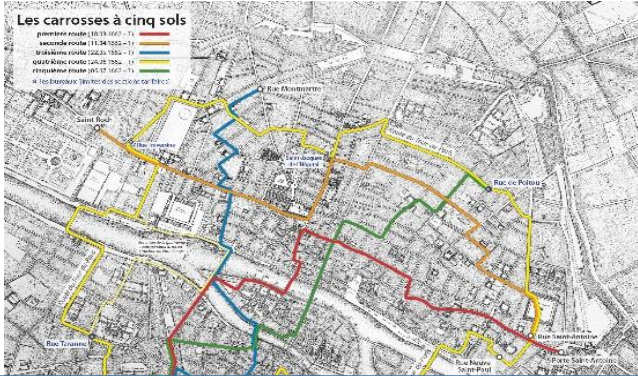
Security,
hygiene

urban
densification
unhealthiness

Renaissance

Security
Hygiene

1st public transport
network

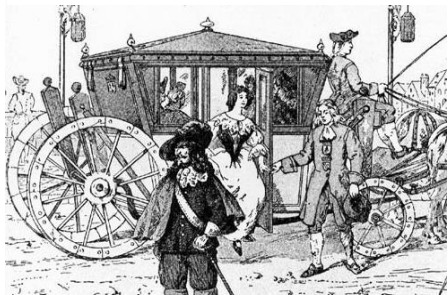


1st urban storage : granaries
1st fluvial shuttle on the Seine
Supplies and building materials

1662: 1st legislative Royal act for “public transport”
1800 mixed public transport (mails-passengers)



diligences < 8 places



Chronology

Modern times
Industrial Revolution

Scientific
discoveries
motorization

1852 : Urban centers
Hausmannian model
Eco growth

Road networks

Change in
mobilities

2 centuries of public transport network
« public transport lines accessible to all »
Nothing for the UGM ?

1826 1832 1853 1862 1863 1881 1900

1° lines
PT omibus

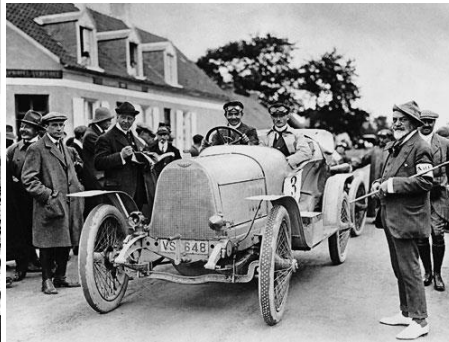
1st horse drawn tram/ N-York
1st rail-road tram/France

1st explosion motor car
Individual transport

1st metro
London

1°electric tram

1st metro
Paris



Chronology

1st half of the 20th century

Mass consumption
Social statut

Urban congestion,
pollution; noise

Golden age of public transport

Car
democratisation

New technologies
Traffic management

heavy use of trams

infrastructure development
for the car

Urban sprawl

<1950

1960



Chronology

2nd part of the 20th century

Technologies
Speed
inexpensive energy
Individual mobility

1990

Saturation
emergence
environmental concerns

Citylogistics concept
UGM national Program (F)

2019

Numeric revolution
E-commerce,
explosion just in time

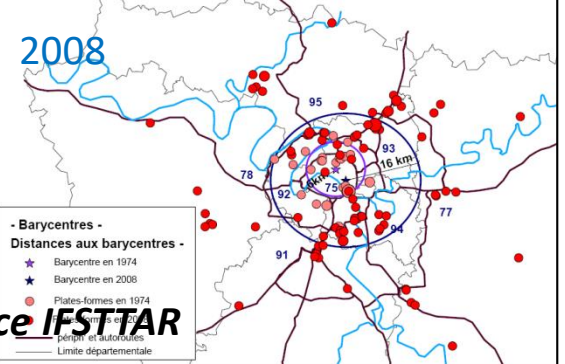
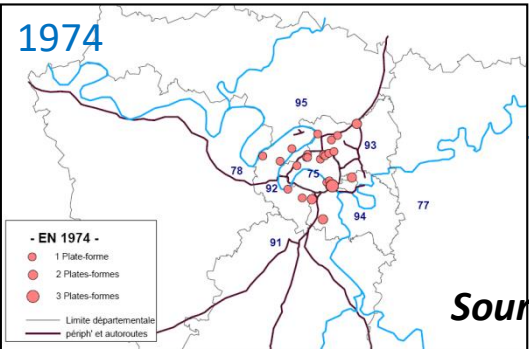
Innovations : robot,
automus
Information system...

Dismantled tramway
networks

Exclusion of logistics activities

1st academic research

deployment technologies,
soft modes



Source IFSTTAR

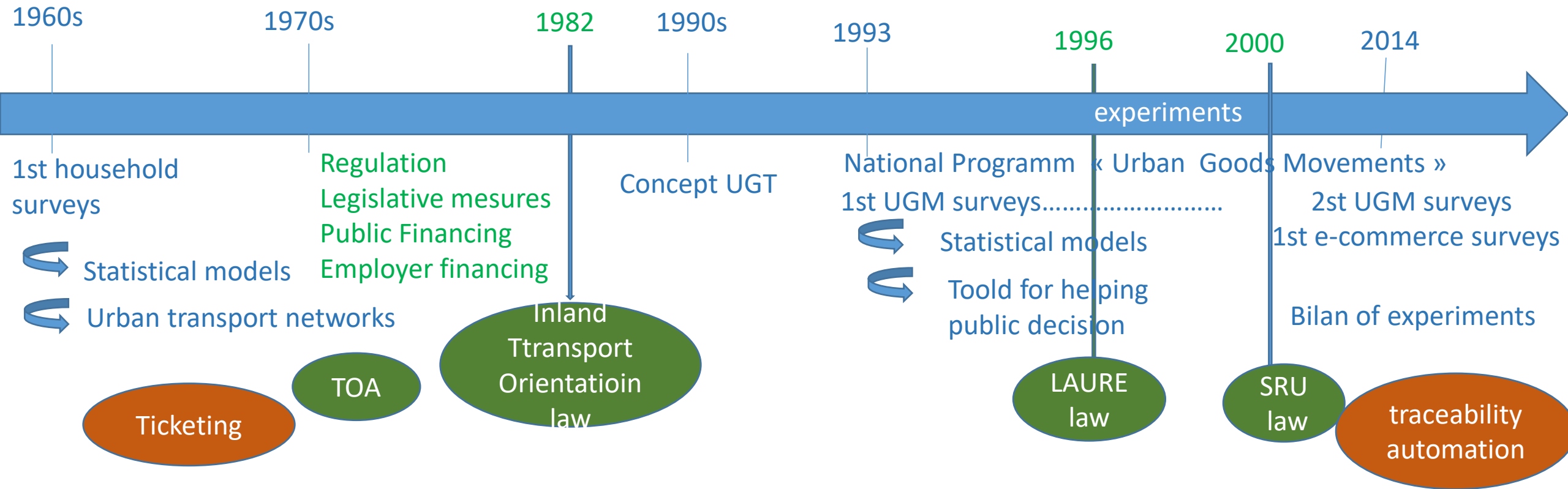
FRETURBFRETURB SILOGUES
models : diagnosis-evaluation-
simulation

Gap into taking account of mobility of people and goods in France : *Knowledge-Regulation-Technologies*

Public transport

30 Years Late

Goods movements



We are in the middle of the ford

Achievements

Knowledge: data-models...

Technologies : tools

Régulations : decrees to integrate goods in local policies

Experiments : relevance

Brakes

Disinterest of elected officials

Lack of competence

Political will

Situation

Road use conflicts

Low performance of urban deliveries

Proliferation of new uncontrolled urban modes,

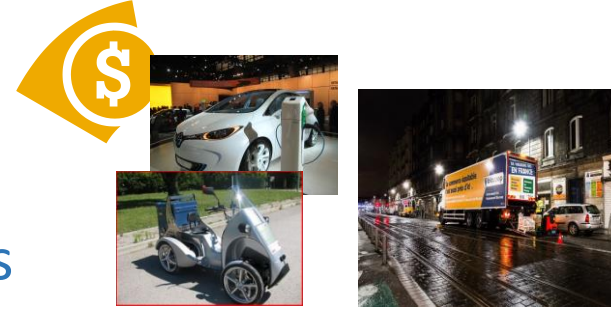
Inadequate or unrealistic regulations....

Progress to be made

Limit Vehicles

LEZ

Incentive
Networks
Technologies
Evaluation of global impacts



Modal Transfer

Anticipate the infrastructures
Technologies
Socio economic assesment



Planning documents

Logistical m2 ratios
logistics master plan
Preservation of logistic spaces

Sharing Road

Strict regulation control
Mobile applications



Urban Logistics Spaces

Need start up incentive
foster public-private company



Preconisations

- ★ **Research** : investigation for collecting relevant data with new technologies/An observatory of global mobility
- ★ **Evaluation of the policies initiated** : standardised protocol and simulation and definition of common indicators
- ★ **Work at the right scale (time / space)**: A logistic Master Plan at the level of urban area
- ★ **Develop skilles**: UGM into territorial engineering courses-serious games-Decision supports tools
- ★ **Develop the power of local authorities** : new governance

Thank you for your attention

Danièle Patier : daniele.patier@laet.ish-lyon.cnrs.fr
<http://tmv.laet.science/>