

de l'État

From open data to open algorithms... and back again

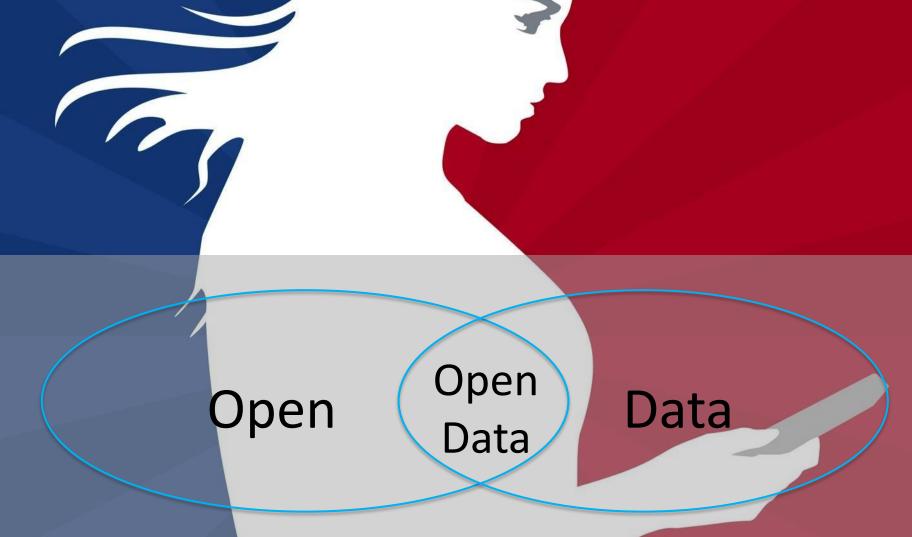
A French experience

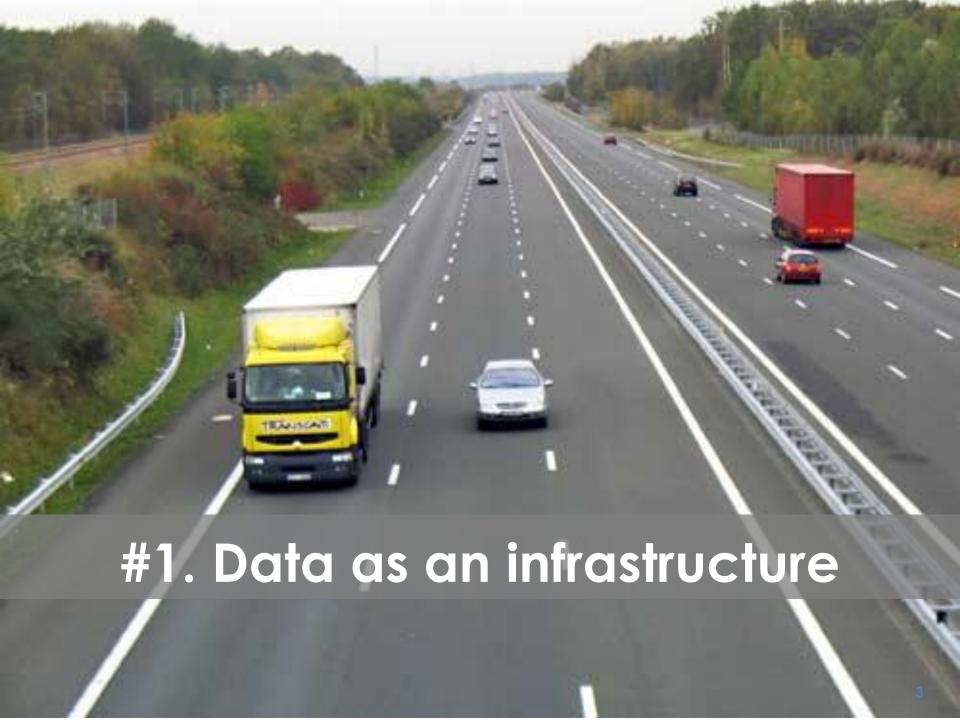
Internet Governance Forum

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Etalab: we contribute to the state digital transformation through open data and open government





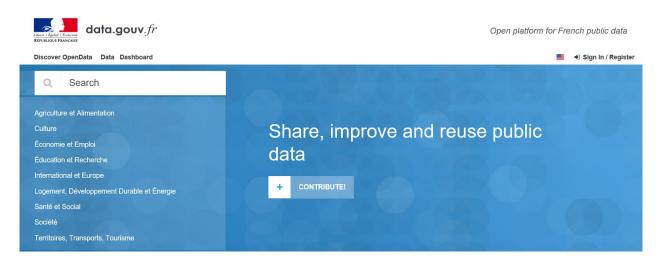
A new data governance for the state



A national **chief data officer**Producing guidelines and doctrine on data governance **Building a community of departmental data officers**



A national open data platform Data.gouv.fr



BEST REUSE CASES



LATEST REUSES







A collaborative platform open to all but especially public bodies

Which aims to **foster** reuse through:

- Curation and datavizs
- Tools to explore data
- Social features

A strong legal framework for open data

Law 78-753 of 17 July 1978 / French FIOA

Freedom of access to administrative documents A few limits to such a freedom Freedom to reuse A regulatory authority, the CADA

"Free of charge" Act

Free of charge reuse as a matter of principle Very limited licence fees

Digital Republic Act

Open data by default: any public organization of more than 50 employees has to make available regularly updated databases and data with an economic, social, environmental interest which can be communicated to everyone

Open standards: easily reusable and usable by an automated processing system

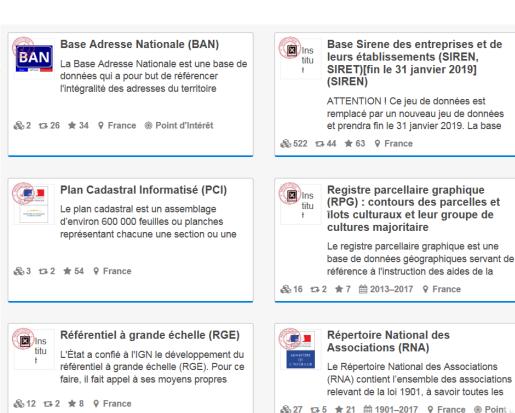
A **limited number of open licenses** (free of charge) to foster dissemination

« Reference data » as a public service

Recognizing the status of « reference data » :

- a common reference to name products, territories or persons ...
- with a high economic and social impact
- already widely reused

Requiring a high degree of quality and reliability both in content and dissemination



9 data sets, including the land, company, NGO registries



Source codes as open data

From a court ruling

A Paris Administrative Court ruled on 10 March 2016 that the software simulating the calculation of personal income tax was an administrative document subject to freedom of information / open data.

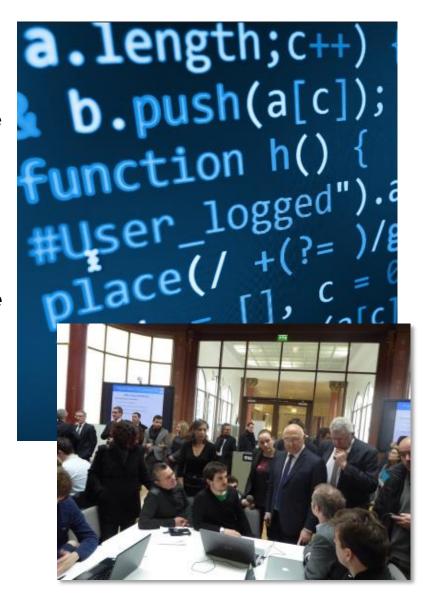
To law

Digital Republic Act included clearly **source codes** in administrative documents

And a state sponsored policy

#codeimpot

Open source contributing policy for public organizations





#2. Opening public algorithms



A new legal framework for public algorithms

A new problem: code is law
Fears about automated decision
making (ie. university
affectations, tax calculation
etc.)



A new legal framework

Digital Republic Act

Transparency rules for algorithms used to make individual decisions:

- mention in each decision
- right to explanation: the person can get detailed information on how the algorithm was implemented for his specific situation and with which data
- online publication of the rules of the main public algorithms

French implementation of GDPR

Automated decision making allowed for administrative decisions when:

- right to human intervention
- transparency
- control of algorithm / rules-based algorithms

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A tough implementation

Getting better understanding of the situation

What is automated decision making? Which public administration use algorithmic treatment? Who is developing the algorithm? Can we access it?

Making sure the existing practices are compliant with the law

With the new transparency framework
With the relevant legislation: does the code correspond to the legal text? Do
we have to be more specific in the text?

Developing best practices

Ex post:

Is transparency enough? Should we share the source code or more explanations? How to best explain? Is it worth it without data? Is auditing the solution? How?

Ex ante:

Where should we position the developing team? How to develop algorithms that are accountable « by design »?



Making accountable AI through open data

Preparing the next public algorithms generation

Deep learning benefits

Efficient private sector algorithms

→ rule-based algorithm will be challenged rapidly

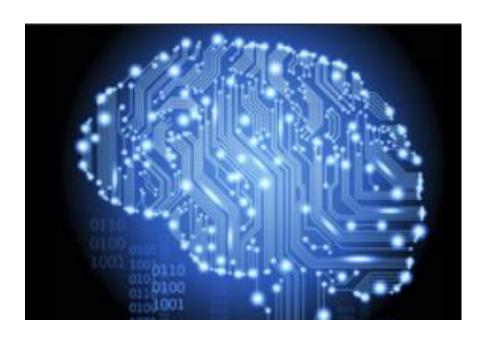
Open training datasets

Non discriminatory
Diverse
For basic AI functions: text, image
And more critical public services

Open testing frameworks

A few projects

Open algorithms



Thank you!

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