Disruption, innovation and R&D in the software world

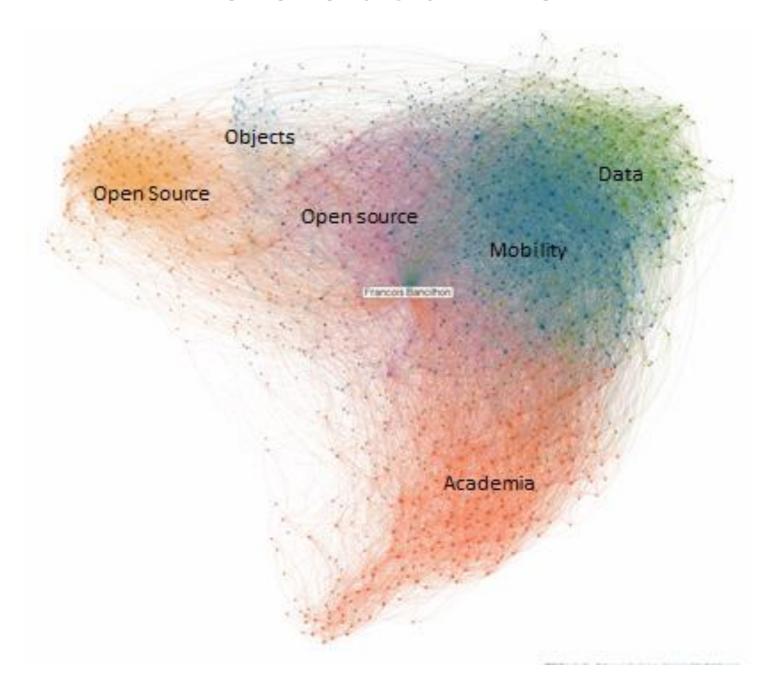
François Bancilhon

twitter.com/fbancilhon francois.bancilhon@data-publica.com www.data-publica.com



DATAPUBLICA

Data about me



François Bancilhon

- Academia (1972-1989) 17 years
 - 1. INRIA
 - University of Paris XI
 - 3. MCC
- Start ups (1989-) 24 years
 - _{1.} O₂ Technology (1989-97)
 - 2. Xylème (2000-)
 - з. Arioso (2000-05)
 - 4. Mandrakesoft/Mandriva (1998-)
 - 5. Ucopia (2003-)
 - 6. Data Publica (2011-)



What is simple is false

What is complicated is incomprehensible



Disruption

- We are living a new economic revolution
- Major disruptions caused by the Internet, the Web and social networks

- Disruption
 - Changes in the rules
 - New games
 - New players



Disrupted



















To be disrupted

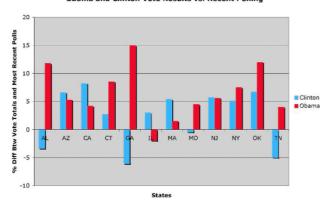








Obama and Clinton Vote Results vs. Recent Polling











Not disrupted



Innovation

- Substantial improvement or creation of new products, services or internal processes
- Generating a two digit growth of the associated revenue



Innovations



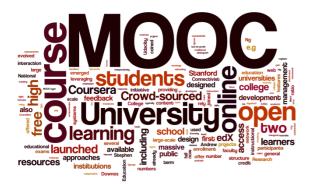
















What changed in the innovation scene (in Europe)?

- VCs
- Angels investors
- Mentors
- Incubators
- Pitch contests
- Start up programs

What is different in the software innovation scene?

- Accelerators (3-6 months)
- App contests (2-4 weeks)
- Hackathons (2 days and 2 nights)

Time is moving faster



Innovation time is getting shorter

- Start ups
- Incubators
- Accelerators
- Hackathons

Accelerators are software specific



Drastic changes in software engineering

- Between 2000 and 2010, the cost of software development has dramatically decreased
- Project development
 - Number of person.years
 - Elapsed time



What made this progress possible?

- Open source software
- SaaS
- SaaS + open source = Mash ups
- Geek social networks
- Agile methodology
- Cloud



Impact of those changes

- Drastic reduction of the barrier to entry in many areas
- Cost and time

- Software development (in € and time) is not the critical resource in a software start up life anymore
- Made accelerators possible

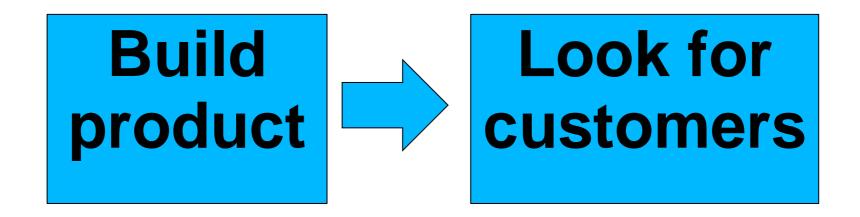


Innovation: versatility

 The average software start up changes its business model three times in its first twelve months

- Examples in the data world
 - Data Publica, qunb, Infochimps, BuzzData, Factual, Datamarket, Scraperwiki

Technology centric companies





Customer centric companies

Look for customers Pauld product



Innovation summary

- Cycle time is short: 3 months
- Business model keeps evolving
- Customer driven reactivity

There is currently no R&D model associated with that behavior



Can we invent agile R&D?



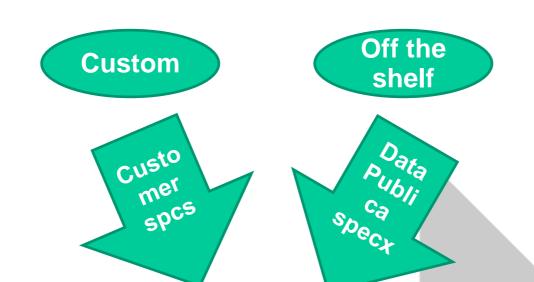
An old R&D/Innovation impedance mismatch

- R&D funding requires technology challenges « verrous technologiques »
- Need to show you are doing something difficult
- Embedded in FP proposals
- Embedded in French R&D funding
- Focuses on difficult problems



DATA PUBLICA





Web

Open Data

Internal Datasets

Datasets Editior

Socail **Networks**

Crawl Scraping ETL, etc.

Text Mining Structuration Augmentation

Delivery

Visualization



Data Publica : expertise

Open Data
Web
Social network
Private data
Crowdsourcing

Transformation

Crawl
Scraping
ETL
Data cleansing
Text & Web mining
Databases

Generic dataviz Specific dataviz

Content

Data

Presentation



Dataset Examples

- Public Tender announcements
- Information on public organisations
- Economic activity (by vertical and by geography)
- Economic dashboard on 36,000 cities
- Employment dashboard on 300 employment zones
- Retail stores and services
- Hotel room prices
- Stores opening hours
- Electric car charging stations
- Elected officials



Data Publica

- We surf on a new trend (data)
- We are here to disrupt major players
- We got limited funding
- We build software super fast
- Our business model keeps being refined
- Six months is long term

We try to cooperate with R&D labs





François Bancilhon twitter.com/fbancilhon francois.bancilhon@data-publica.com www.data-publica.com

