BIG DATA IS NOT ONLY A TECHNICAL CHANGE!

P. RONDEAU  22/03/2016
BIG DATA is a TRANSFORMATION, more than a technical Change!

The Road Map: Typical Stages and Milestones of Big Data Adoption

<table>
<thead>
<tr>
<th>Value</th>
<th>Data-Driven Enterprise</th>
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<tbody>
<tr>
<td>Transformative</td>
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<tr>
<td>Strategic</td>
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<tr>
<td>Opportunistic</td>
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<tr>
<td>Experimental</td>
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<tr>
<td>Aware</td>
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<tr>
<td>Unaware</td>
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</tbody>
</table>

**Which strategies have proved successful in promoting a data-driven culture in your organisation?**

(\% respondents)

- Top-down guidance and/or mandates from executives: 69
- Promotion of data-sharing practices: 48
- Increased availability of training in data analytics: 40
- Communication of the benefits of data-driven decision-making: 40
- Recruitment of additional data analysts: 17

Source: Economist Intelligence Unit survey, October 2012.
**BIG DATA** is a Technical change  
---But What is the best TOOLS for your NEEDS?
BIG DATA is a Technical change — But what is the best TOOLS for your NEEDS?

ASSEMBLE THE BLOCKS

For choosing their big data tools, Airbus has looked at all available options on the market. « At the start, we thought we would find one and only provider that would cover all our needs, one fits all approach. » said Vincent Galinier. We finally decided to play builders and use different blocks to build the adapted and robust solutions. In the list of tools selected, you can find Hadoop as calculation platform and Python and R as programming languages.

Extrait de « Un Datalab chez Airbus pour diffuser le big data dans tous les métiers » RIDHA LOUKIL / PUBLIÉ LE 10 MARS 2016 | L’usine Digitale
EXPERIMENTAL PHASE TO LAB PHASE

Data Analyst

User Needs

User Stories

Functional needs

Technical needs

Design visualisation

User Validation & Tests

Update

Experimental Phase

IT

Hardware

Software

Validation

Lab Phase
PROCESS ... INFORMATION STRATEGY

- ORGANIZATION
- METADATA
- QUALITY
- LIFECYCLE
- SECURITY
- PRIVACY
- ETHICS
People Profile in Evolution - HARD SKILLS

Singular Profiles

- Stat & Math
- Business Acumen
- Computer science
- Data Manager

The Chimera
but of the nice kind
Mixte Profile in Evolution - SOFT SKILLS

Mixte soft skills

 Assertive

 Business sensitive

 Agile

 A bit geeky?

Mixte Profile

 Stat & Math

 Business Acumen

 Data Manager

 Computer science
3 operating models

- **Centralized**
  - Operating Model
  - Financing
  - Customer Value
  - Factory Operations, Economies of
  - Attract, Retain and Develop Tal
  - RACI

- **Federated**

- **Decentralized**
A long journey... WITH A STRATEGY TO BUILD

3 pillars of transformation

5 challenges:
1. Define the business case
2. Build a flexible technical infrastructure
3. Break the organisation silos
4. Acquire analytical talents
5. Adopt a lean methodology: experiment, learn and improve