

Smart Innovation Set

coordinated by
Dimitri Uzunidis

Volume 29

Data Control

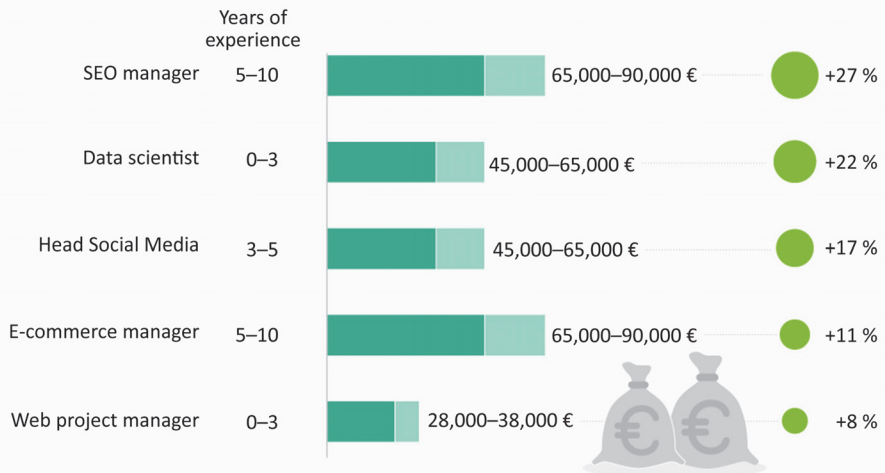
Major Challenge for the Digital Society

Jean-Louis Monino

Color Section

Digital golden jobs in 2018

Raw fixed annual salaries for 2018 and progression compared with 2017



@Statista_FR

Source : Robert Half

statista

Figure I.1. Digital golden jobs in 2018

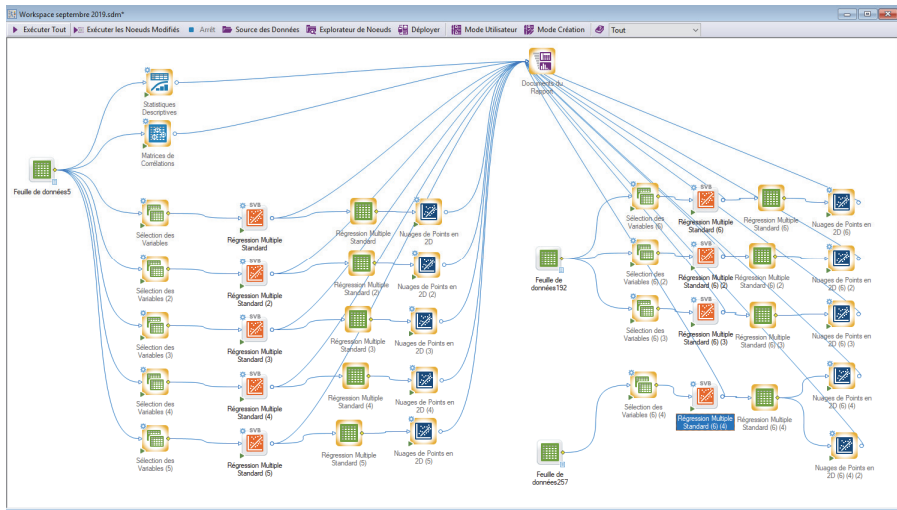


Figure 1.2. TIBCO's data mining and Statistica software. The research and development project of E2S-Conseils in collaboration with the TRIS laboratory has been developed using Tibco's Statistica Data Mining for health research (MONINO L., TIBCO's data mining and Statistica software. The research and development project of E2S-Conseils in collaboration with the TRIS laboratory has been developed using Tibco's Statistica Data Mining for health research, Thesis, 2019)

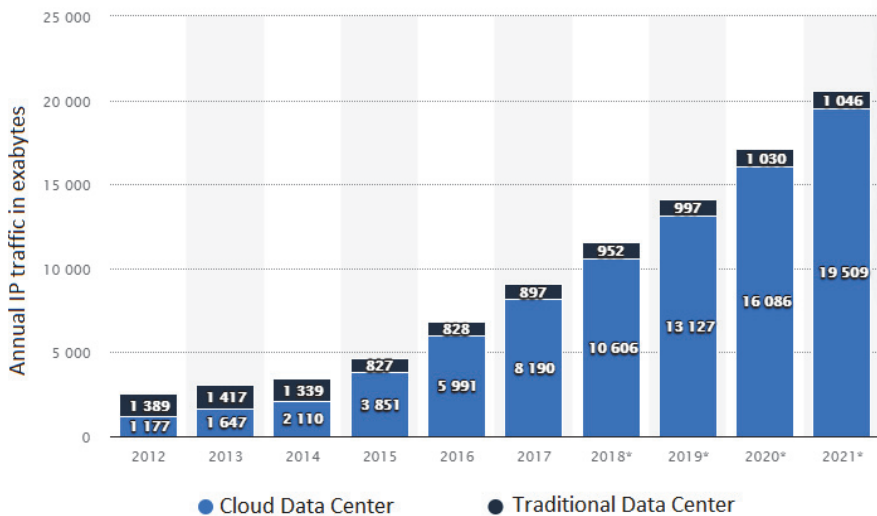
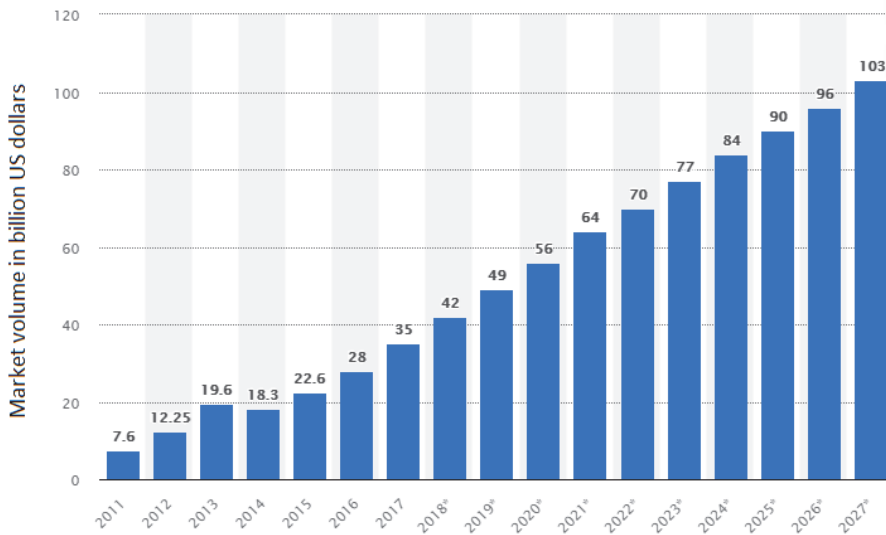


Figure I.3. *Forecasting Big Data market size, based on revenues, 2011–2027 (source: Statista)*

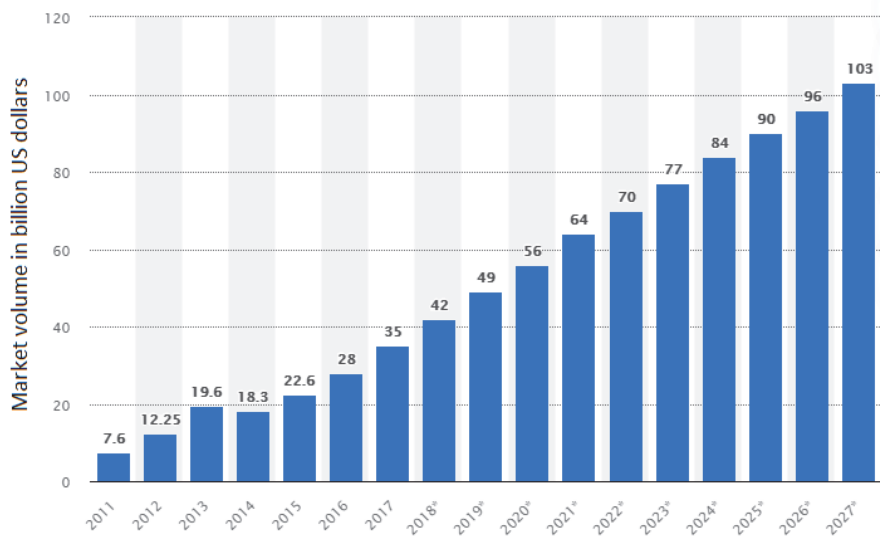
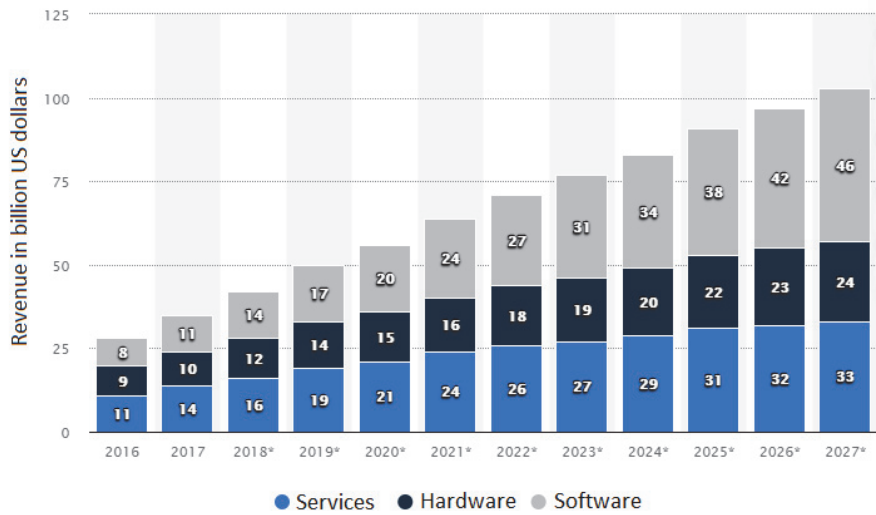


Figure I.4. The Big Data turnover and market size (source: Statista)

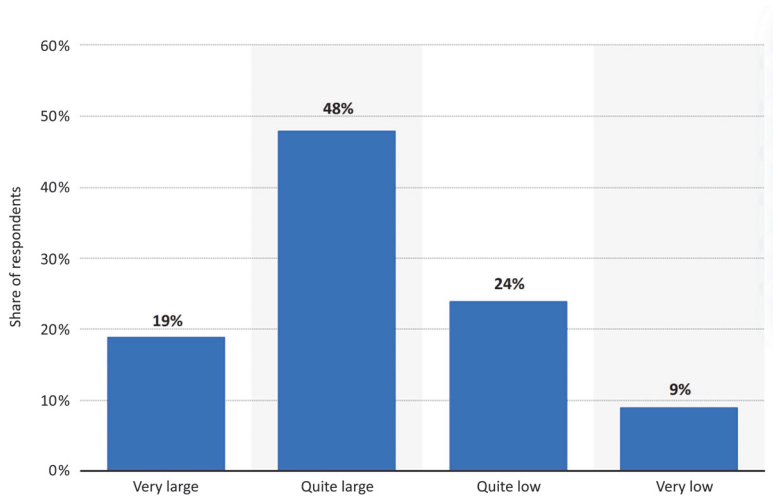


Figure 1.5. *With what interest do you follow the news through the information media (press, radio, television)? (source: Statista)*

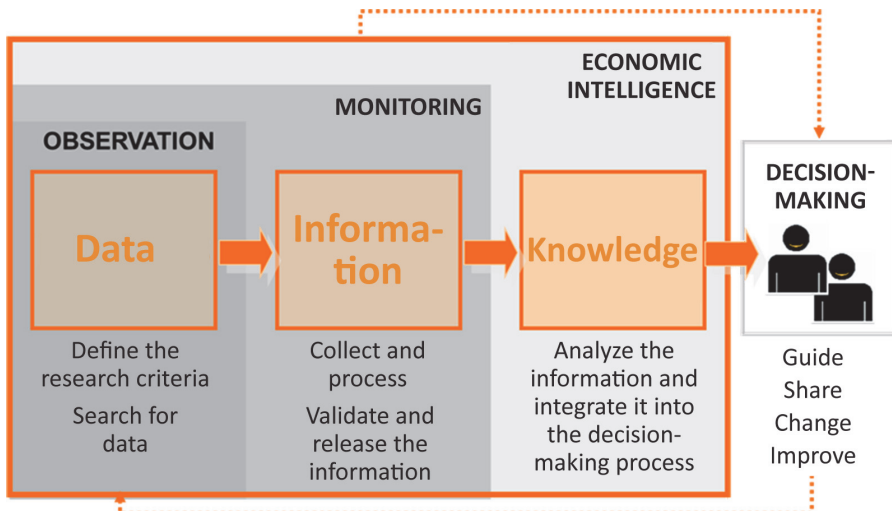


Figure 1.2. *Business intelligence model of data to decision-making (source: Monino and Lucato 2005)*

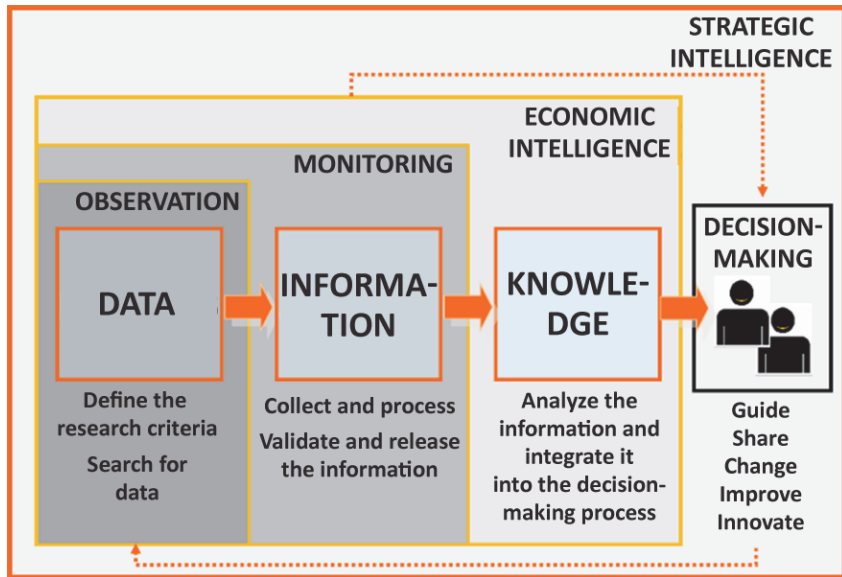


Figure 1.3. From data to decision-making strategic intelligence (source: Monino and Lucato 2005, Conference Fondation Maison du Maroc Paris October 2019 "Economic intelligence and data control in the digital world")



Figure 2.1. MOOC introduces you to the GDPR. The CNIL offers professionals the opportunity to discover or better understand the GDPR, in order to enable them to initiate compliance within their organization and help raise awareness among operational staff.



Bienvenue sur le MOOC de l'ANSSI.

Vous y trouverez l'ensemble des informations pour vous **initier à la cybersécurité**, approfondir vos connaissances, et ainsi **agir efficacement sur la protection de vos outils numériques**. Ce dispositif est accessible gratuitement jusqu'au mois d'avril 2021. Le suivi intégral de ce dispositif vous fera bénéficier d'une attestation de réussite.

Accéder au MOOC de l'ANSSI

MENTIONS LÉGALES | DONNÉES PERSONNELLES | F.A.Q.

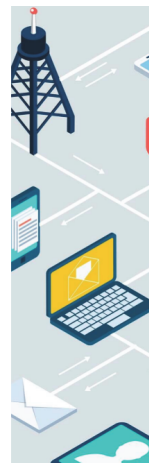


Figure 2.2. ANSSI and information security. Raising French people's awareness of digital security is a major challenge. In response, ANSSI is launching its first online course, the MOOC SecNumacadémie.

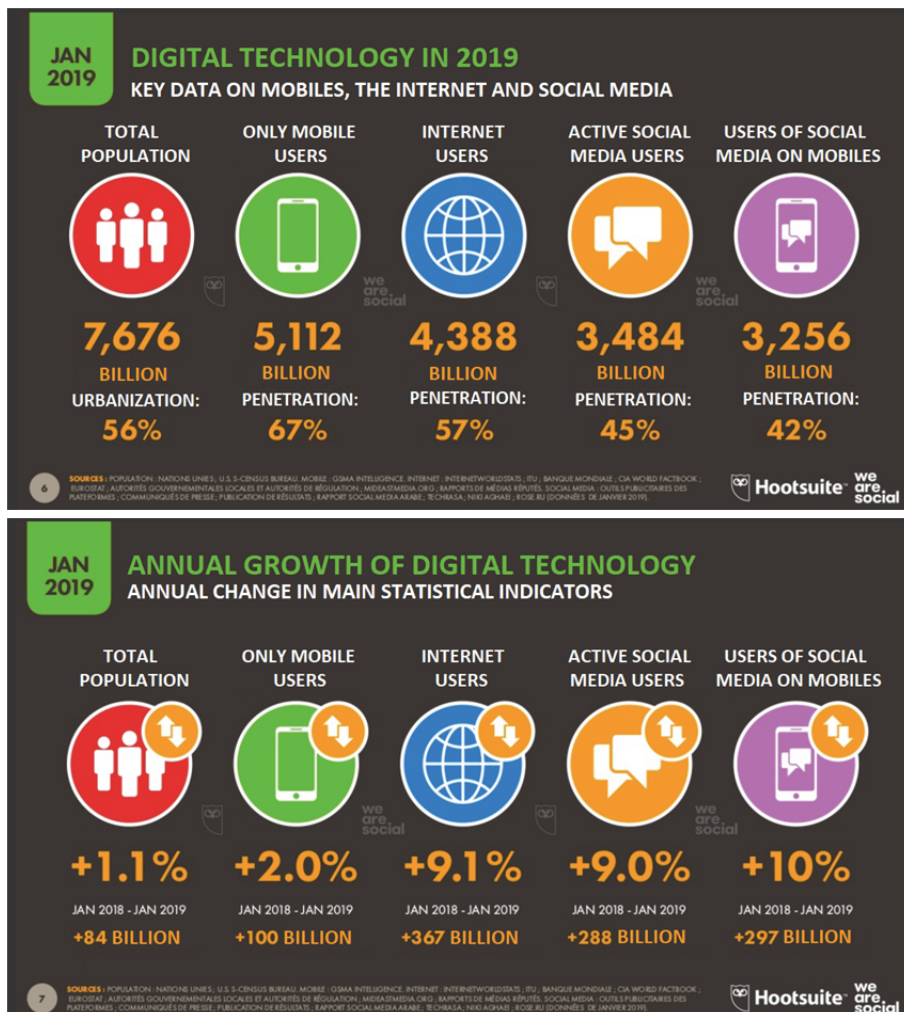


Figure 2.3. Digital technology in the world and its growth (source: We Are Social/GlobalWebIndex)



Figure 2.4. Types of subscriptions and e-commerce activities in France (source: We Are Social/GlobalWebIndex)

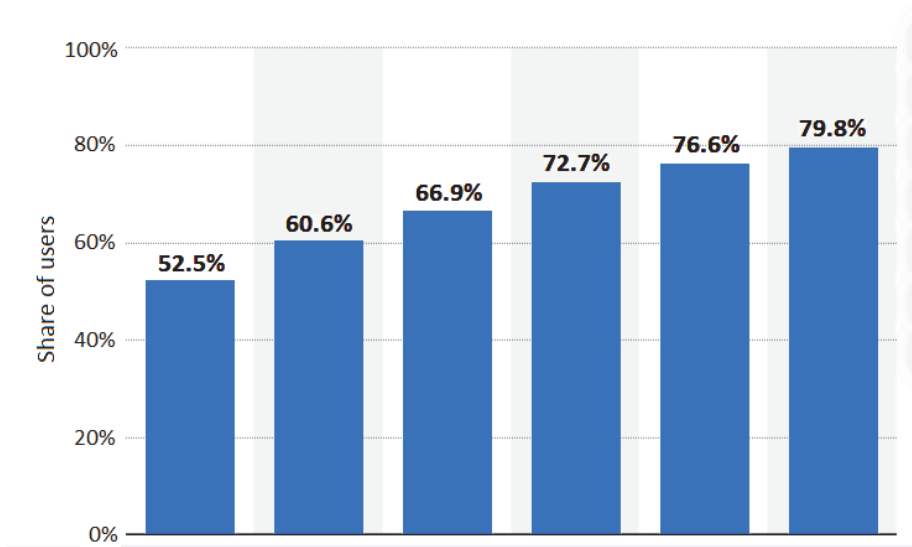


Figure 2.5. Penetration rate of smartphones among mobile phone users in France from 2014 to 2019 (source: Statista)

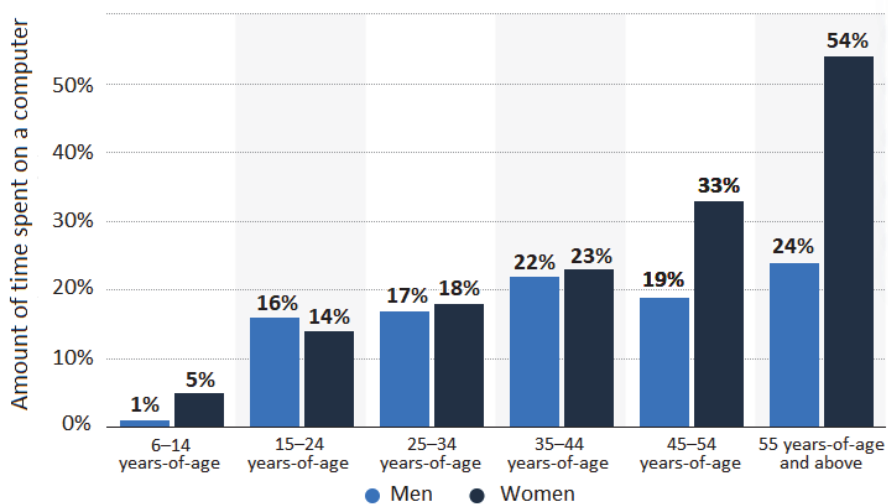
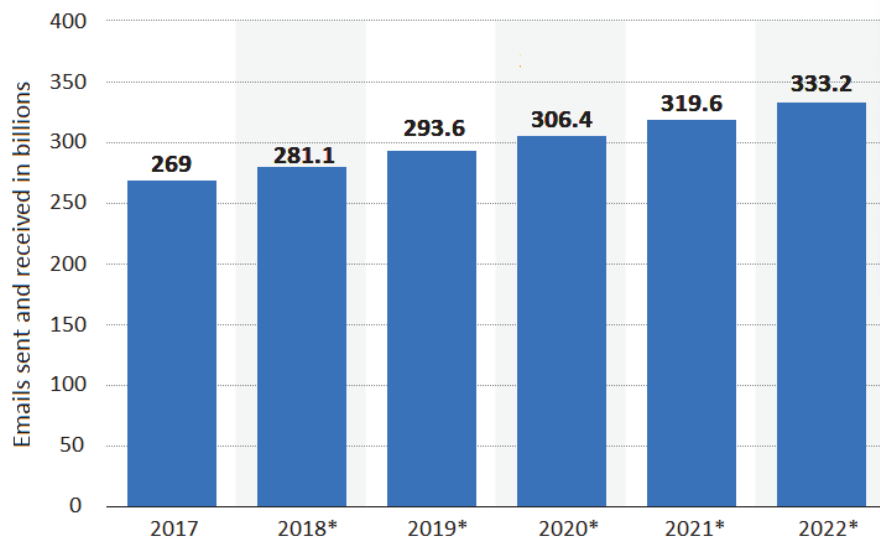


Figure 2.6. Number of emails sent and received every day in the world from 2017 to 2022 (in billions). Breakdown of time spent on the computer by the French in 2015, by age and sex (source: Statista)



Figure 2.7. Comparison by age of the number of hours spent on the Internet per week in France in 2019 (source: We Are Social/GlobalWebIndex)

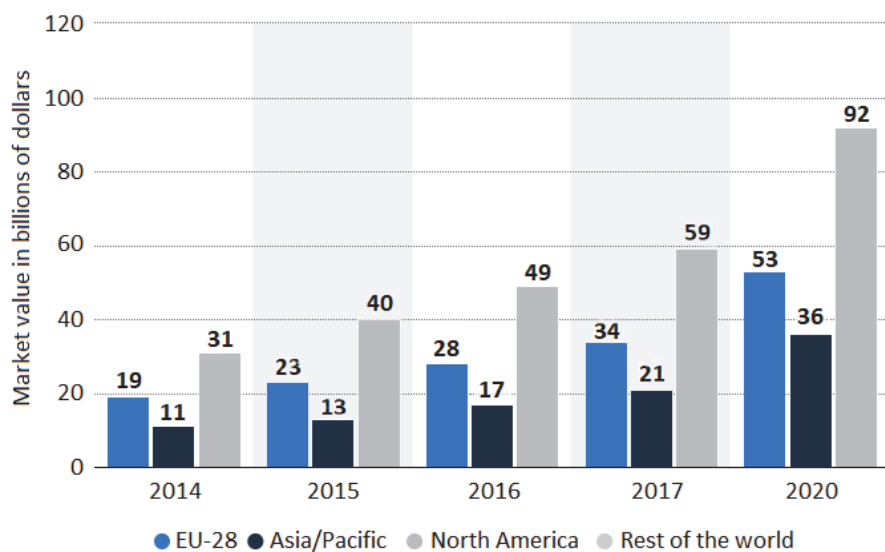


Figure 2.8. Value of the Cloud computing market for companies worldwide from 2014 to 2020, by region (in billions of euros) (source: Statista)

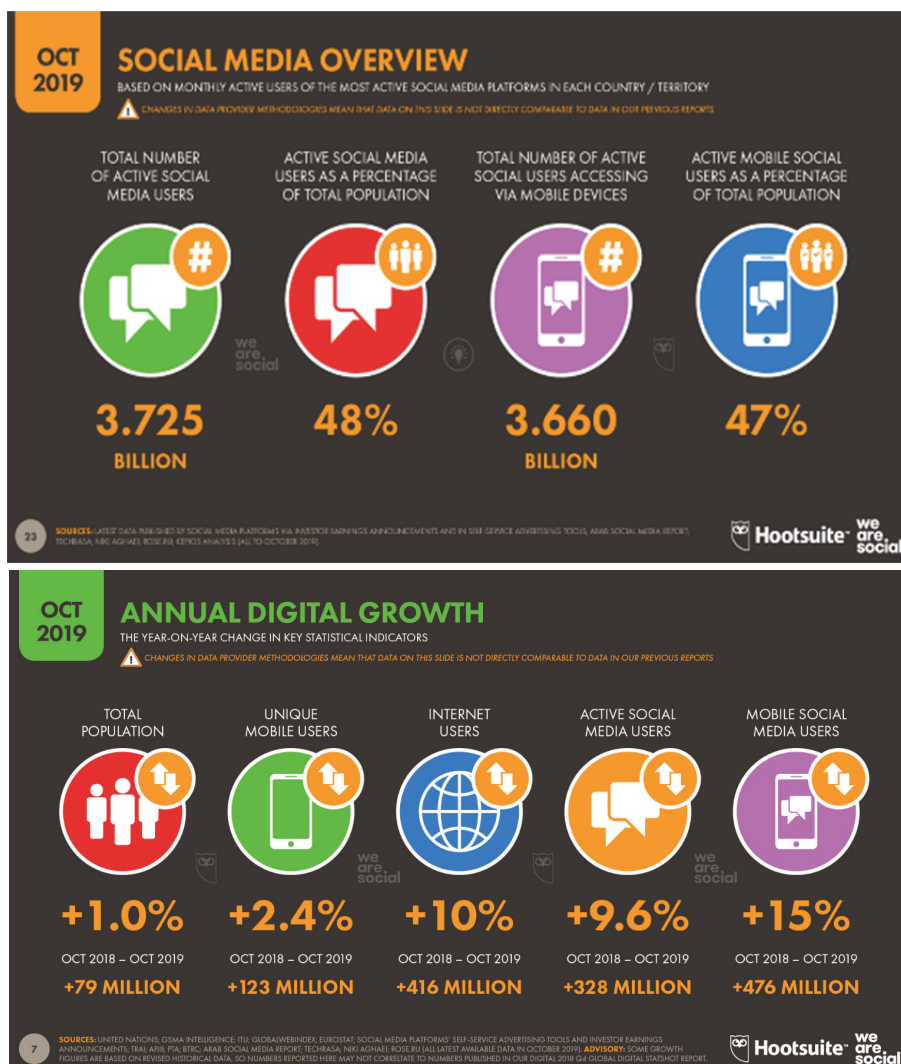


Figure 2.9. Statistical social networks (source: We Are Social/GlobalWebIndex)

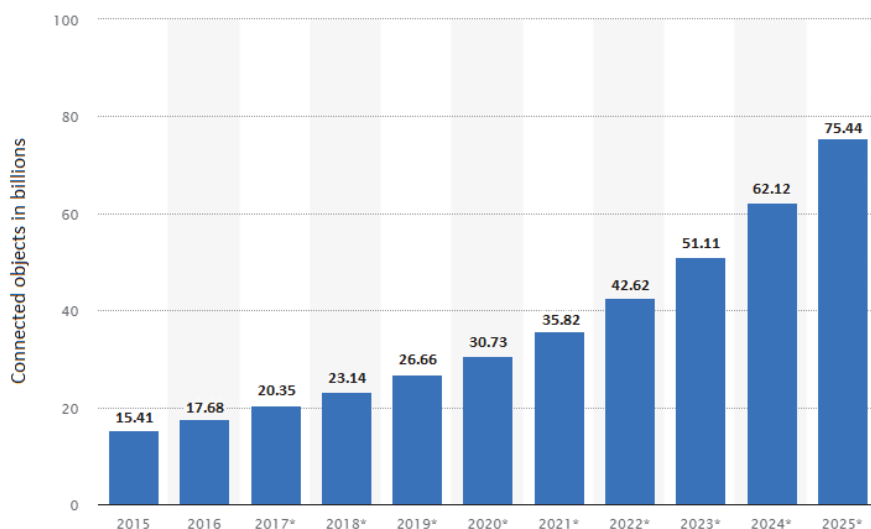
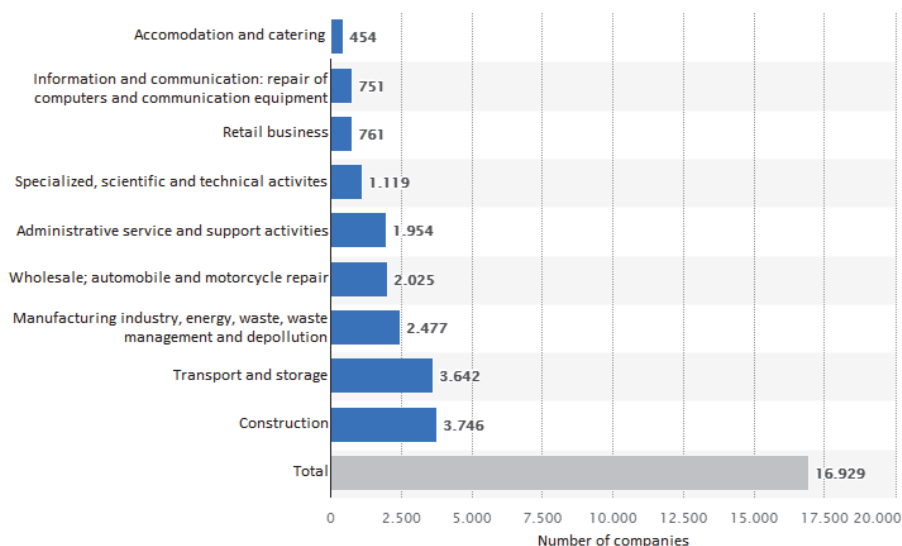


Figure 2.10. Number of companies analyzing Big Data using geo-location data from handheld devices in 2017, by sector* Internet of Things (IoT): number of connected devices worldwide from 2015 to 2025 (in Billions) (source: Statista)

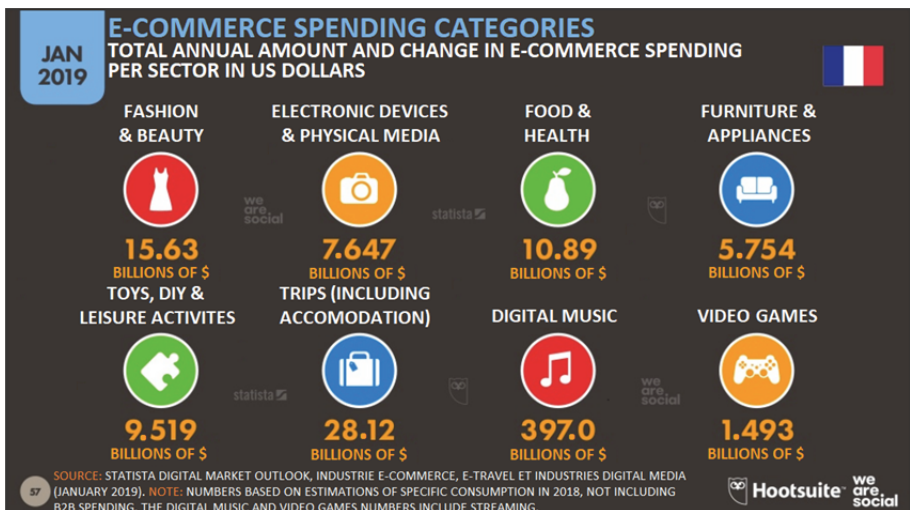


Figure 2.11. Categories and digital currency (source: We Are Social/GlobalWebIndex)

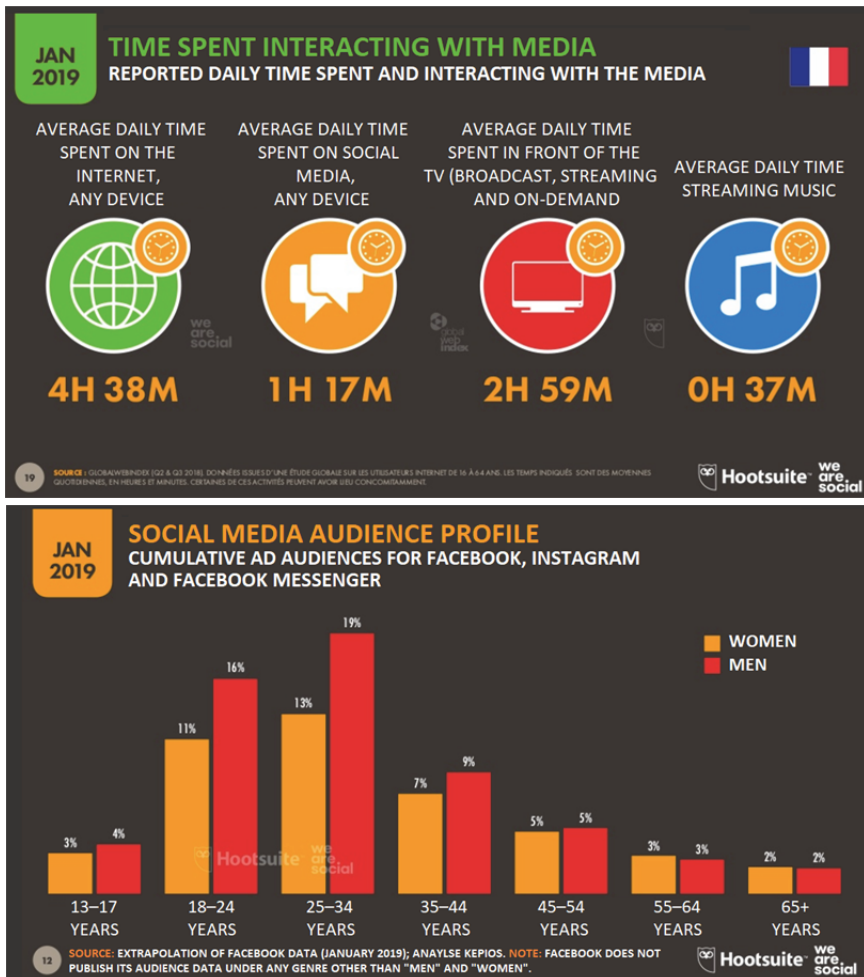


Figure 2.12. Time spent and profile of the social media audience in France 2019 (source: We Are Social/GlobalWebIndex)

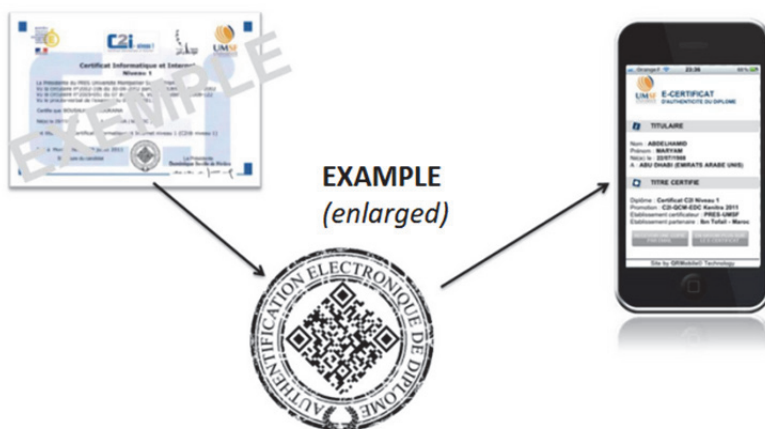


Figure 2.13. Information processing. Security and mass processing of C2i certificates using QRCode. In recent years, multiple initiatives have been launched to certify the origin of diplomas. In this respect, it is interesting to recall that the University of Montpellier and in particular its TRIS Laboratory have been pioneers in the fight against diploma falsification since 2011. Research work
<https://www.contrefacon-riposte.info/technologies/4423-l-universite-de-montpellier-pionniere-dans-la-lutte-contre-la-contrefacon-des-diplomes>.

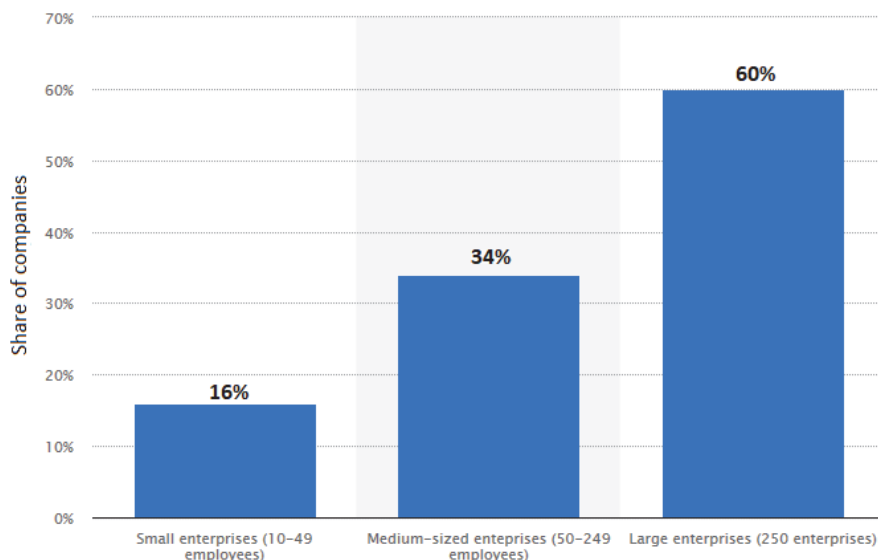


Figure 2.14. Percentage of companies purchasing Cloud computing services used on the Internet in France in 2018, by company size (source: Statista)

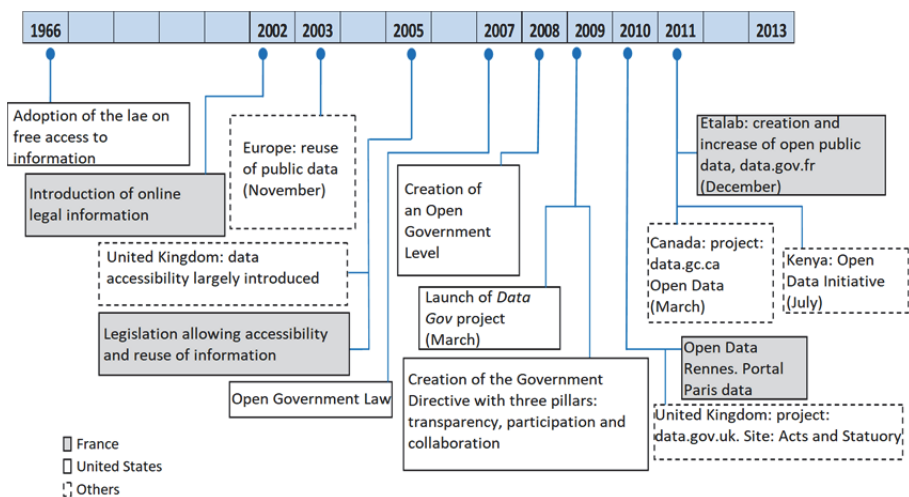


Figure 2.15. History of open data (source: Monino and Sedkaoui)

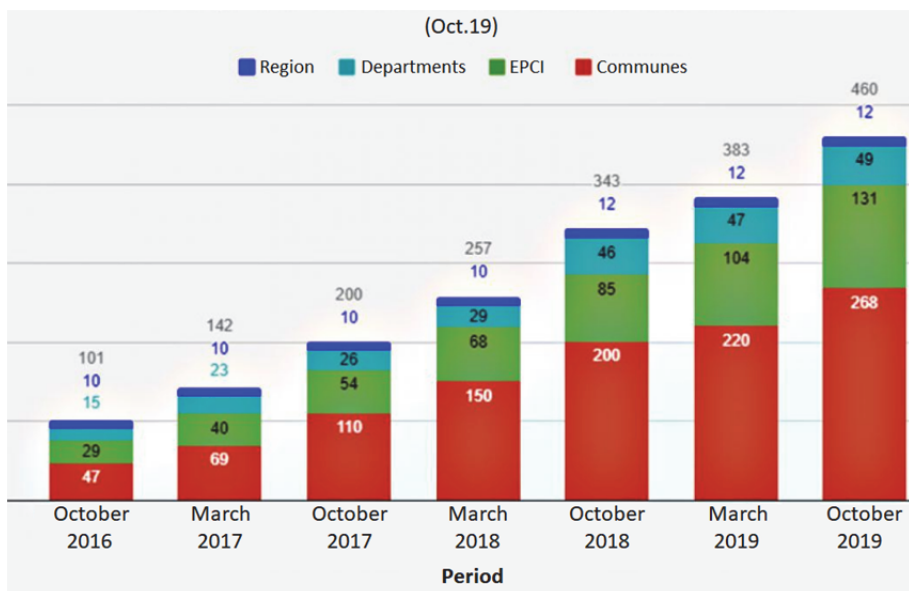
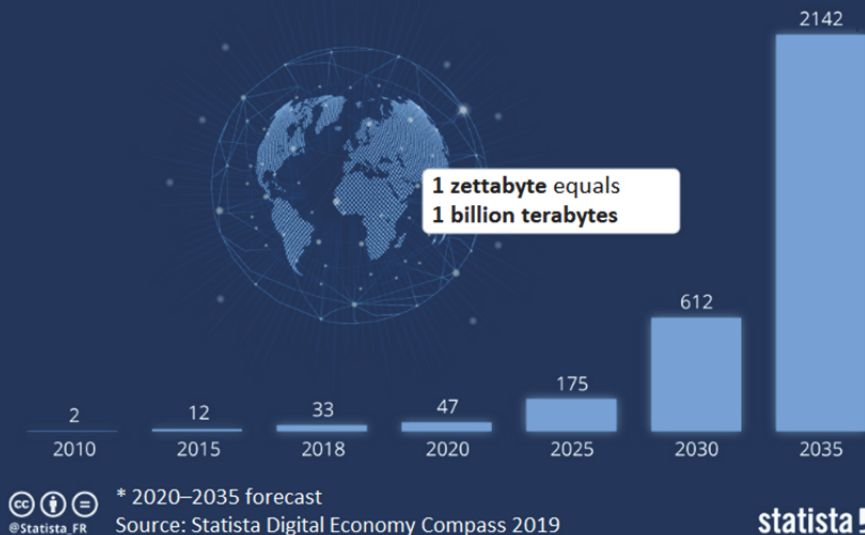


Figure 2.16. History of communities that have opened their data (source: Coudercy and Delobelle 2014)

Big data: the volume of data created will explode

Volume of digital data created in the world in 2010 (in zettabytes)*



France, European leader of Open Source

Breakdown of 2017 revenue from the Open Source European market*

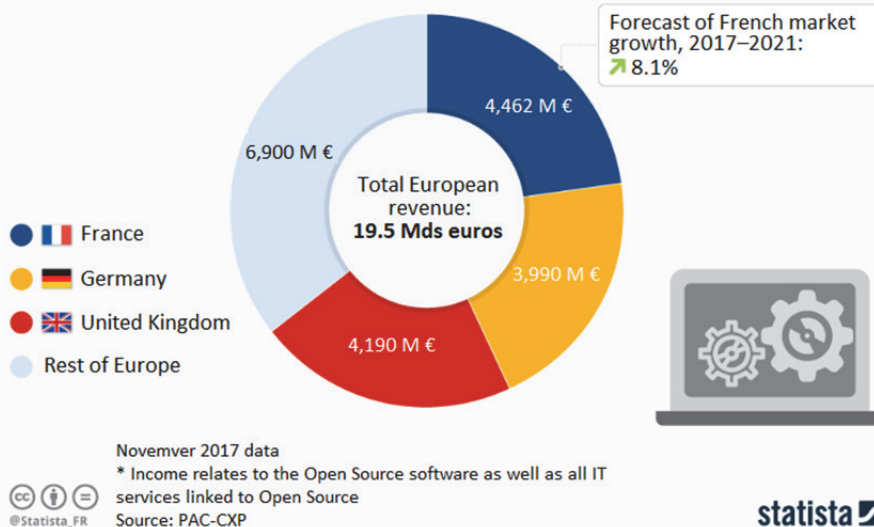


Figure 2.17. Big Data and open data volumes (source: Statista)



Figure 3.1. *Map of the divisions of the population*

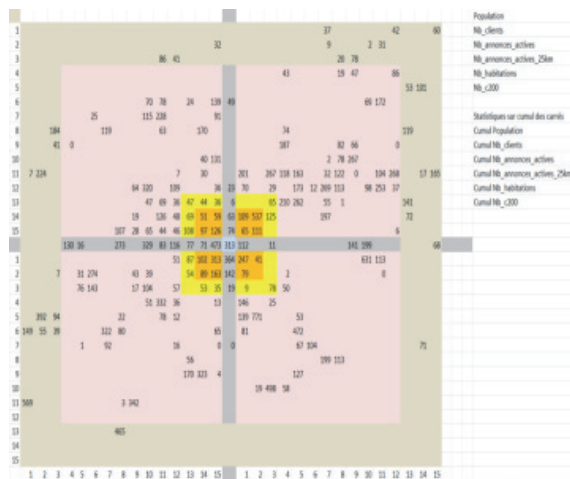
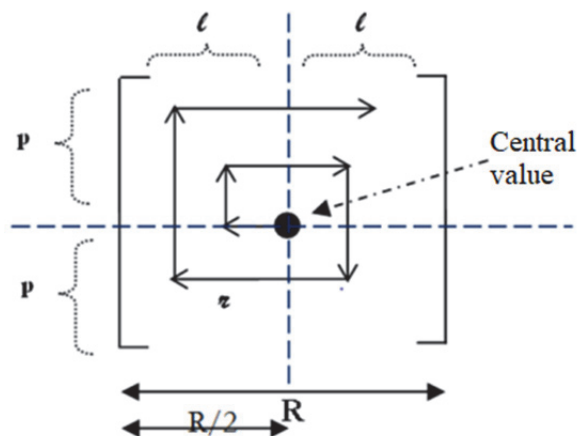


Figure 3.2. AUTOUR.CIM.



Figure 3.3. Open data on the city of Paris. The site of the Open Data initiative of the City of Paris. You will find here all the datasets published by the City services and its partners under ODbL license



Figure 3.4. The data.gouv.fr website. In the same perspective and in order to make the best use of open data, the Open Data portal “data.gouv.fr” in France makes available more than 350,000 datasets under the “Etalab Mission Open Licence”. The data released in this way is of very diverse nature and can generate interesting applications.



Figure 3.5. Clouds of text or words. “The keyword cloud”: it is a visual representation of the most used keywords on a website. Generally, words are displayed in larger fonts as they are used.

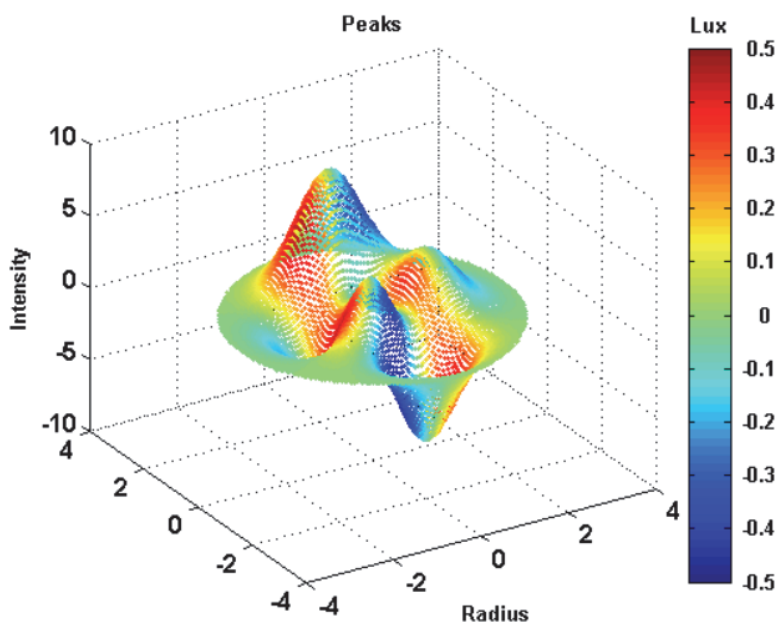


Figure 3.6. Three-dimensional visualization. Animated visualization in space: it is an interactive image that moves so that it can be seen from different sides, while positioning the information to better read the graph.

How the GAFAM generate billions

Main source of revenue for the GAFAM in 2017, in US dollars

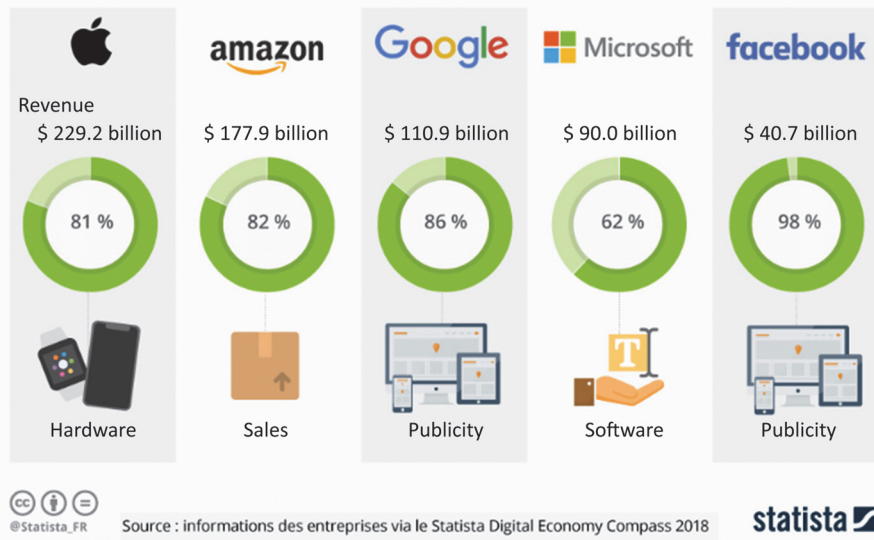


Figure 3.7. AFSM their main sources of income

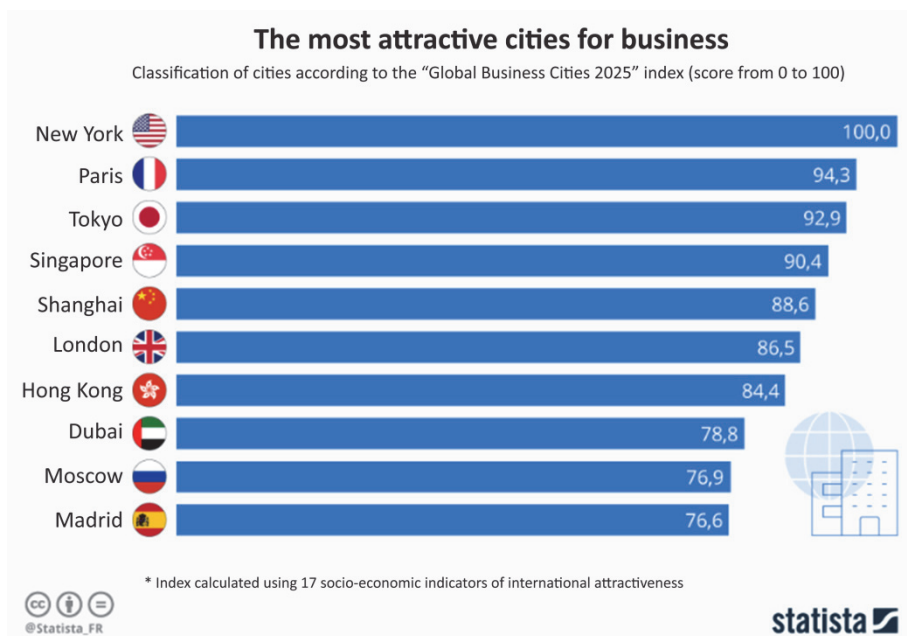


Figure 3.8. Ranking of the most attractive metropolises in the world



Figure 3.9. *The Intelligent City – Montpellier. Montpellier Méditerranée Métropole, true to its spirit of innovation, is experimenting with the “Smart City” concept in partnership with IBM, the University of Montpellier, IDATE and several local companies.*


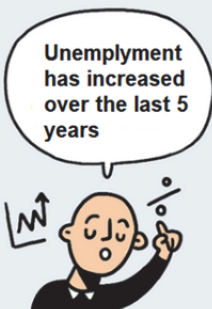


	
<p>This is an opinion</p> <hr/> <p>This is a personal opinion, which does not imply whether it is right or wrong.</p>	<p>This is a fact</p> <hr/> <p>This comes from an identified source, which allows you to verify it yourself.</p>
	
<p>This is a rumor</p> <hr/> <p>In the absence of a source, it is difficult to give credit to this information.</p>	<p>This is a fact</p> <hr/> <p>Here, the information comes from an identified and verified source, the prefecture website.</p>

Figure 4.1. Advice, information, rumor. According to Agathe Dahyot/Le Monde, our translation of original figure (Les Décodeurs 2017).

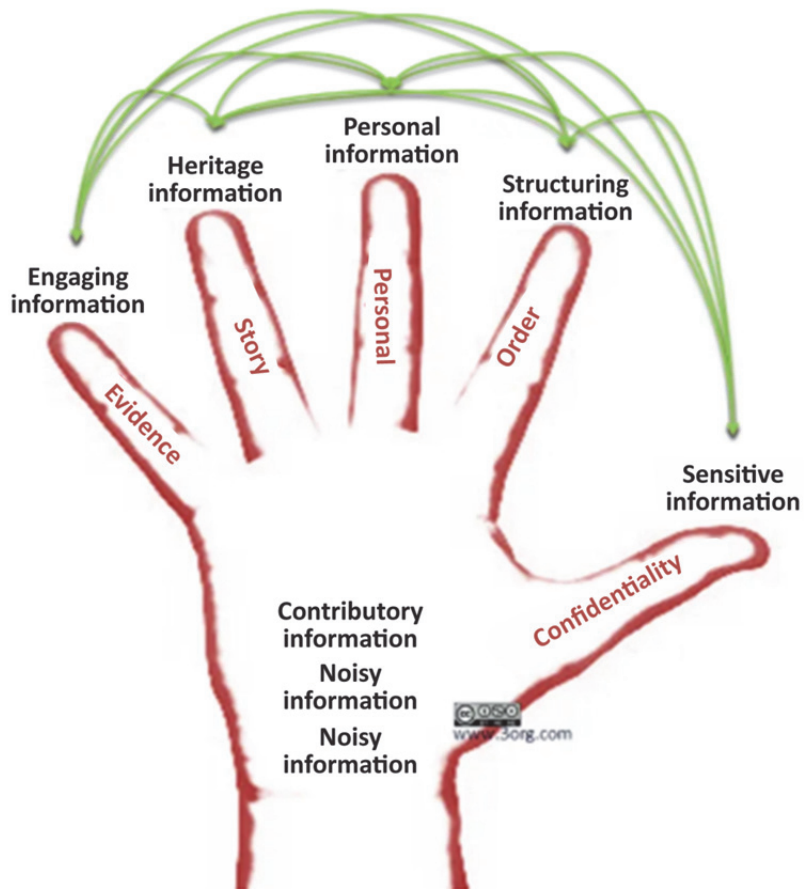


Figure 4.2. According to Jean-Pascal Perrein, the information flow is represented by seven families of information: engaging, heritage, structuring, sensitive, personal, contributory and noisy

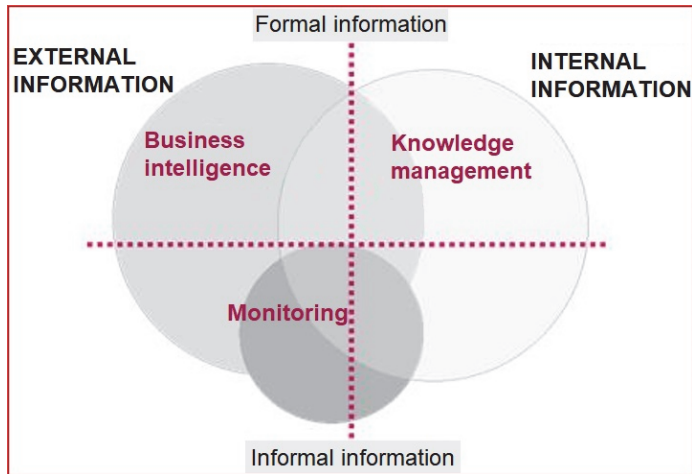


Figure 4.3. *Several kinds of information (source: Monino 2016)*

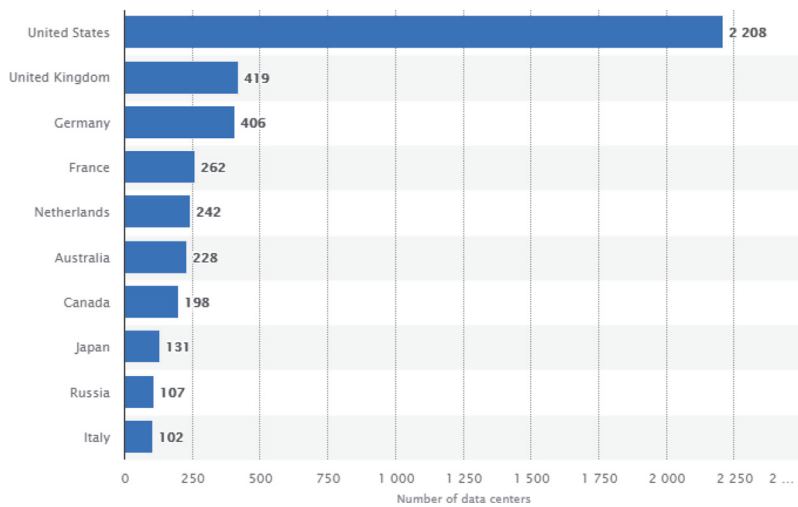


Figure 6.1. *Data Centers worldwide*

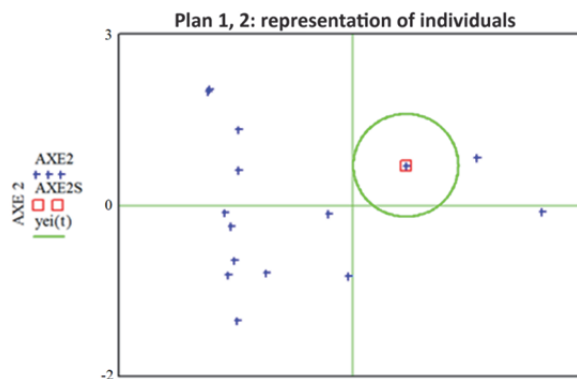
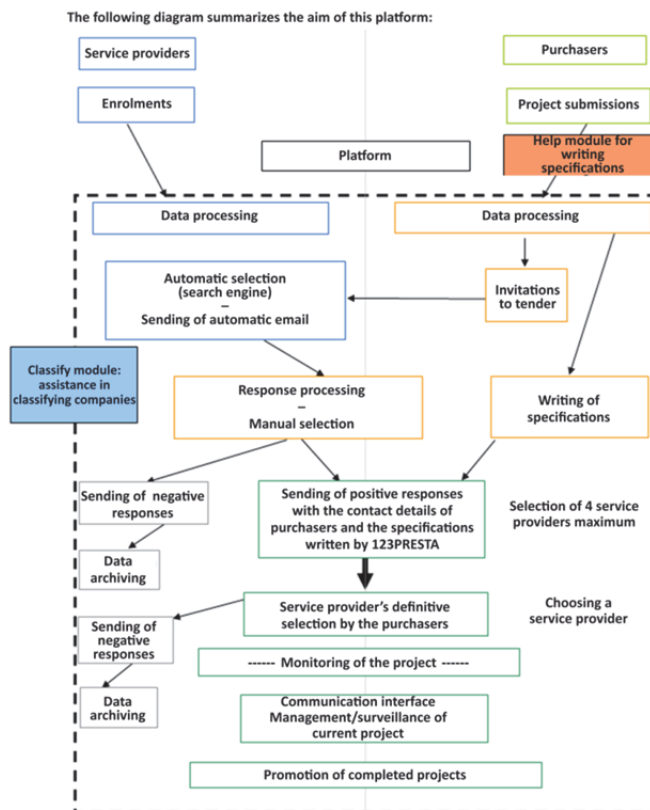


Figure 6.2. A classification by data analysis concerning a group

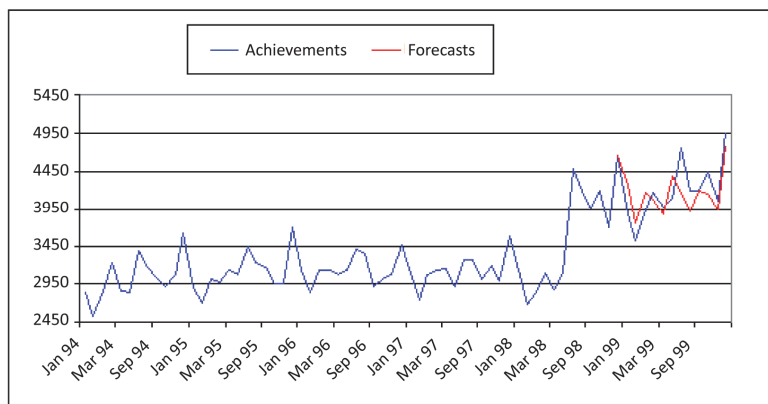
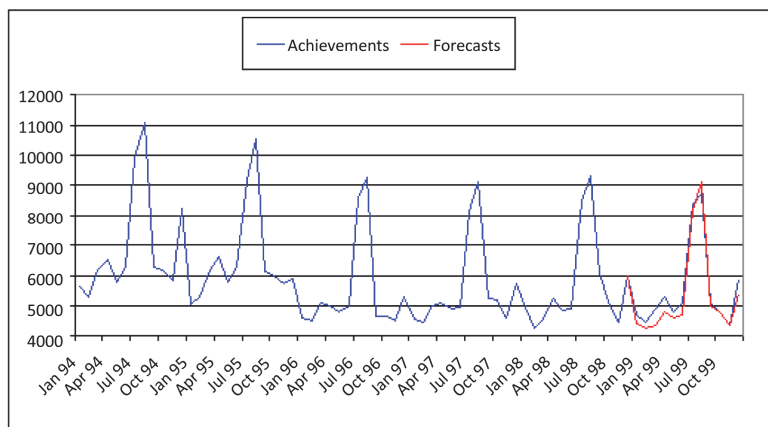
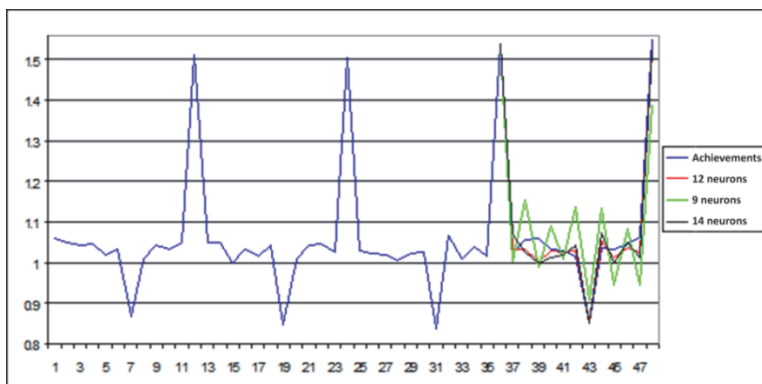


Figure 6.3. Predictions using the neuron method

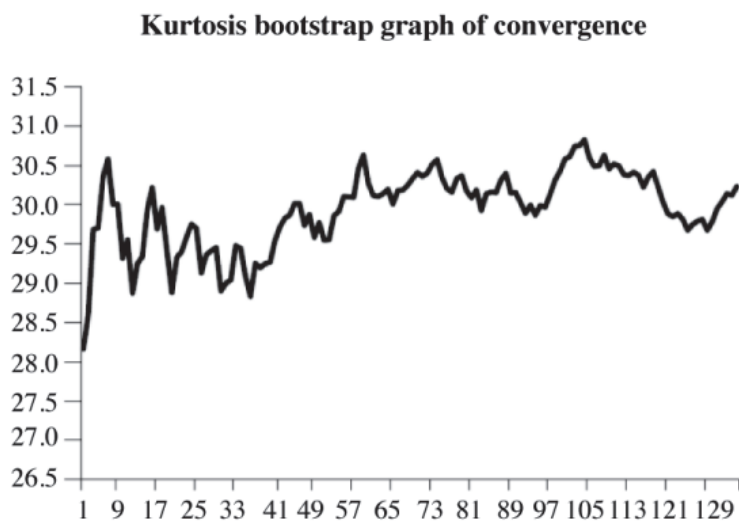
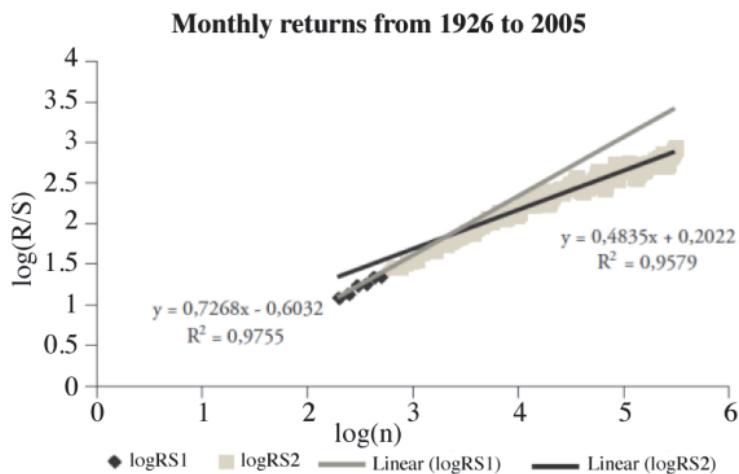


Figure 6.4. *The stock market, chance, deterministic chaos*

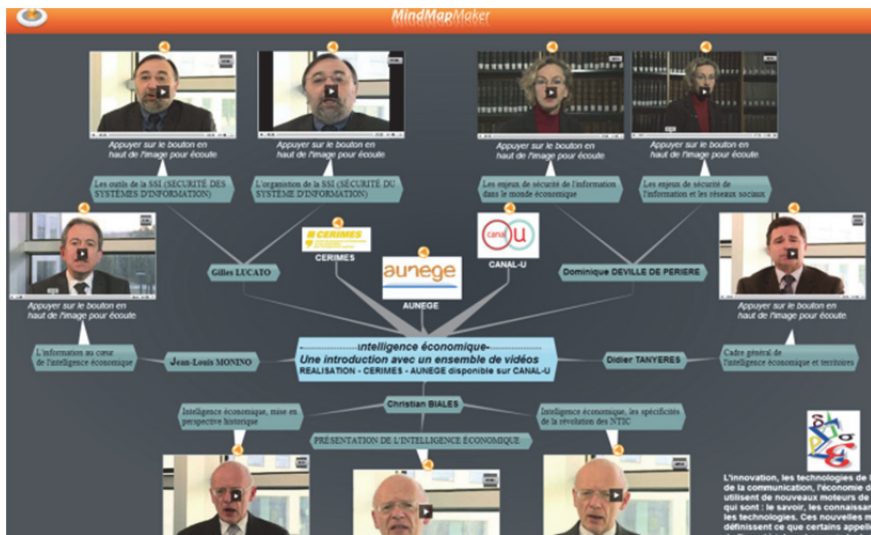


Figure 6.5. Example of educational resources put online by AUNEGE

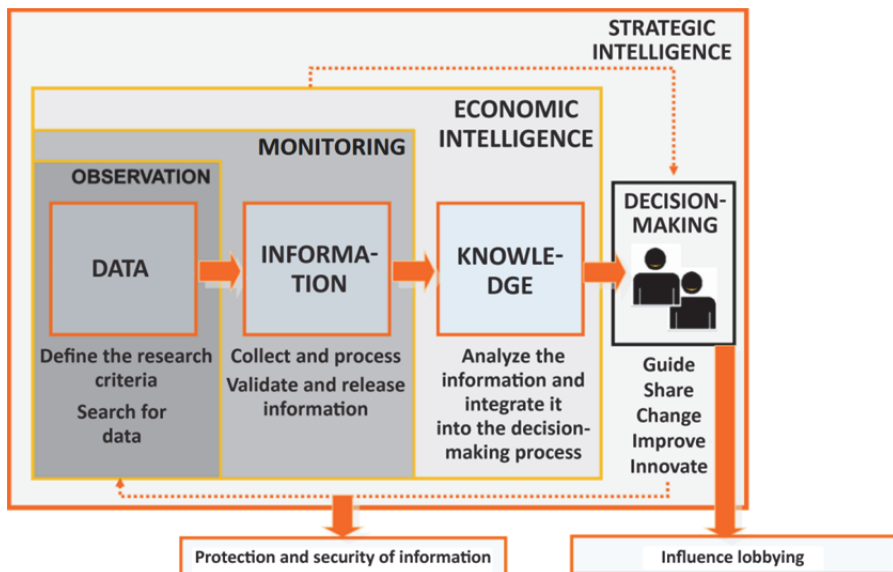


Figure 6.6. A model of strategic business intelligence, influence and information security

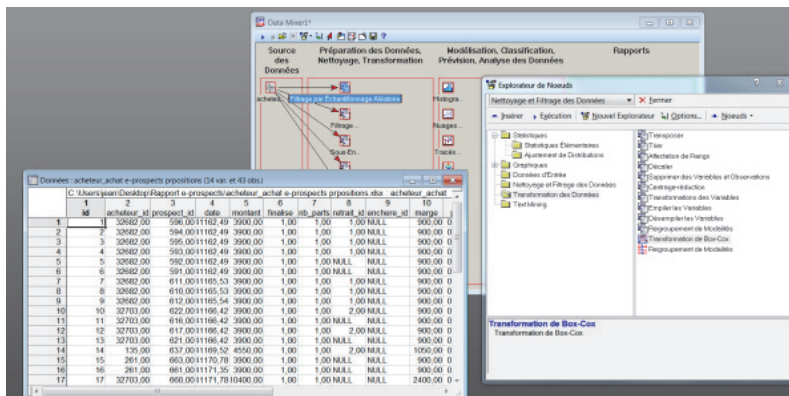


Figure 6.7. Example screen of TIBCO's Statistica

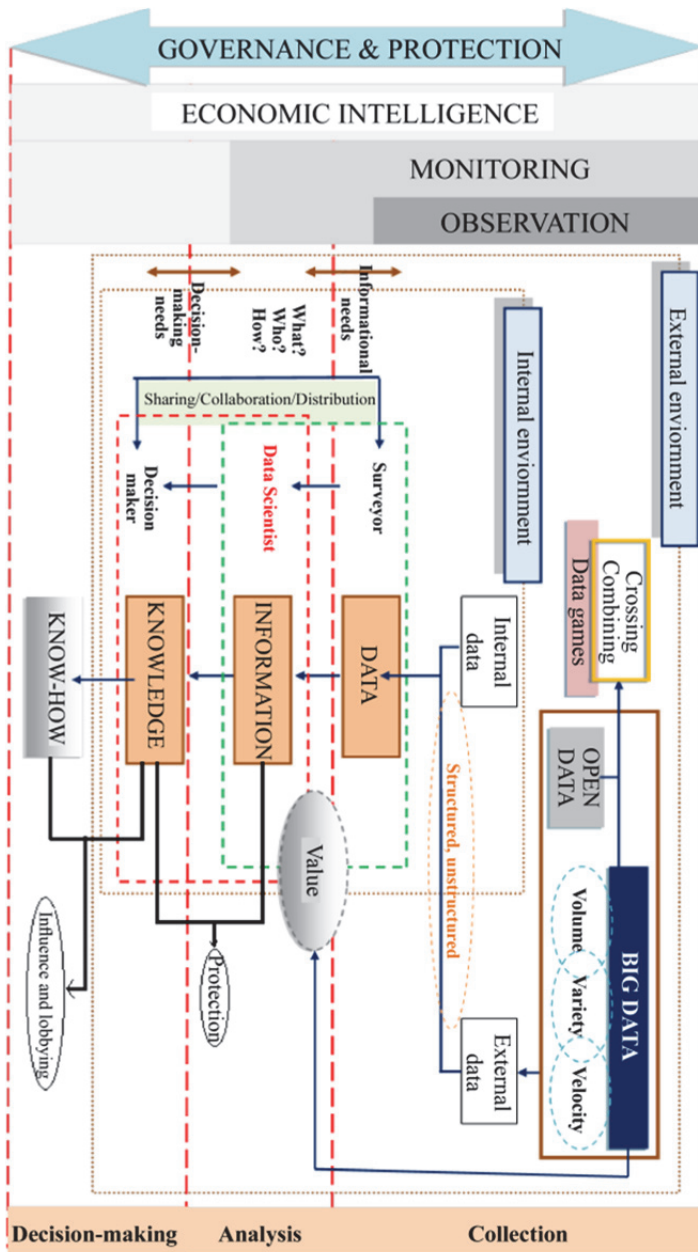


Figure C.1. *The place of data in the digital society: a proposal for modeling through the concept of Economic Intelligence*