

Apprendre à piloter l'algorithme



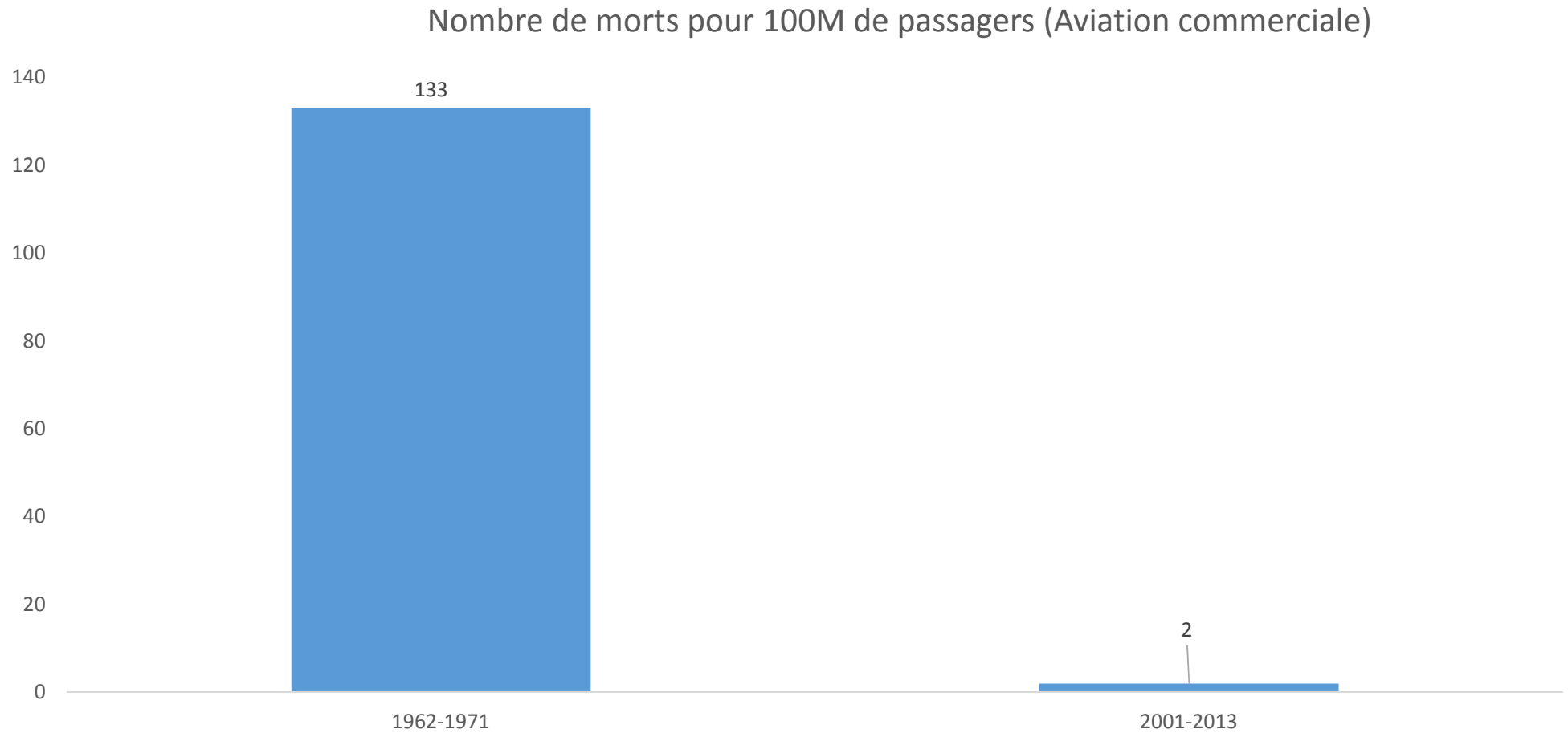
Bob Loft







Pourquoi un algorithme ?



Source: Allianz

Y a-t-il encore un pilote ?

Evidence That Robots Are Winning the Race for American Jobs



Claire Cain Miller @clairecm MARCH 28, 2017



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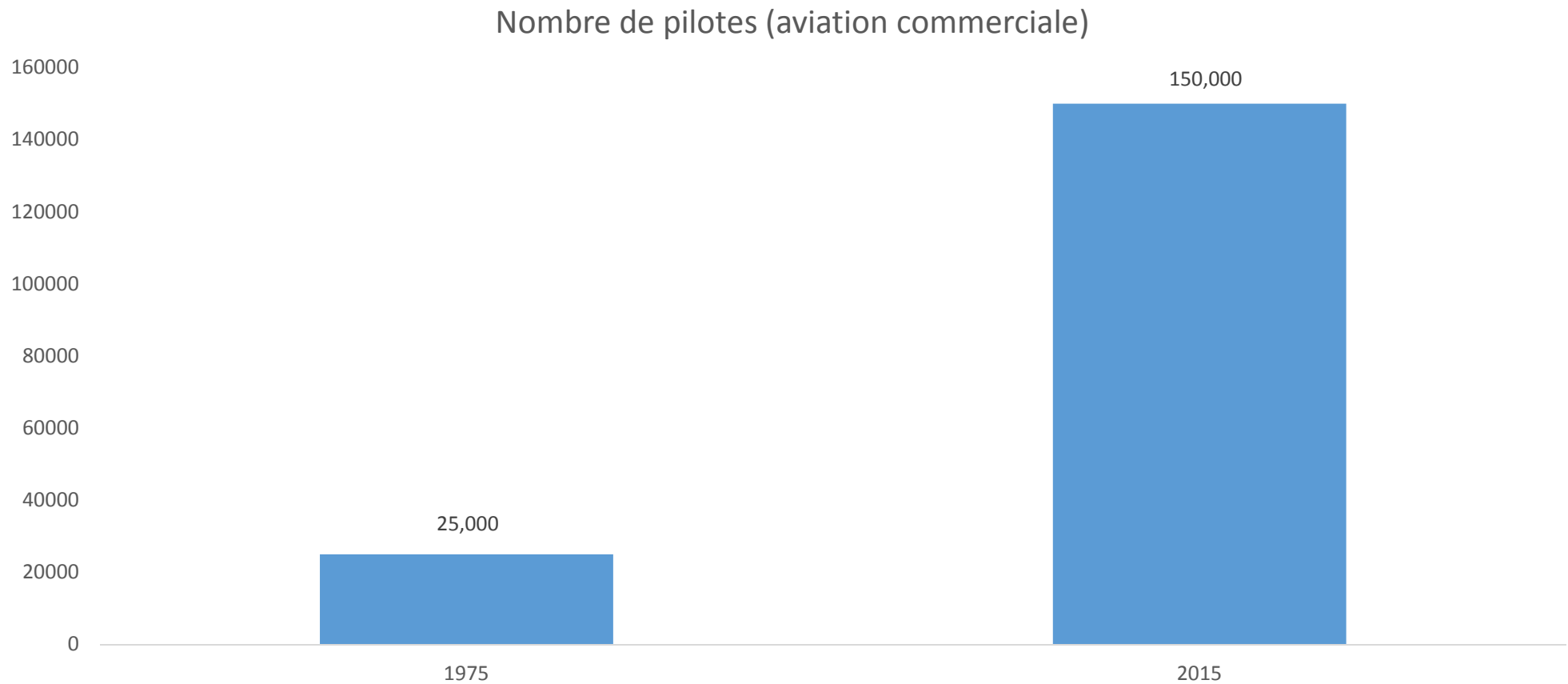
*“Now comes the **second machine age**. Computers and other digital advances are doing for mental power—the ability to use our brains to understand and shape our environments—what the steam engine and its descendants did for muscle power.”*

Erik Brynjolfsson & Andrew McAfee - The Second Machine Age

*“We are being afflicted with a new disease of which some readers may not have heard the name, but of which they will hear a great deal in the years to come – namely, **technological unemployment**”*

John Maynard Keynes, 1930

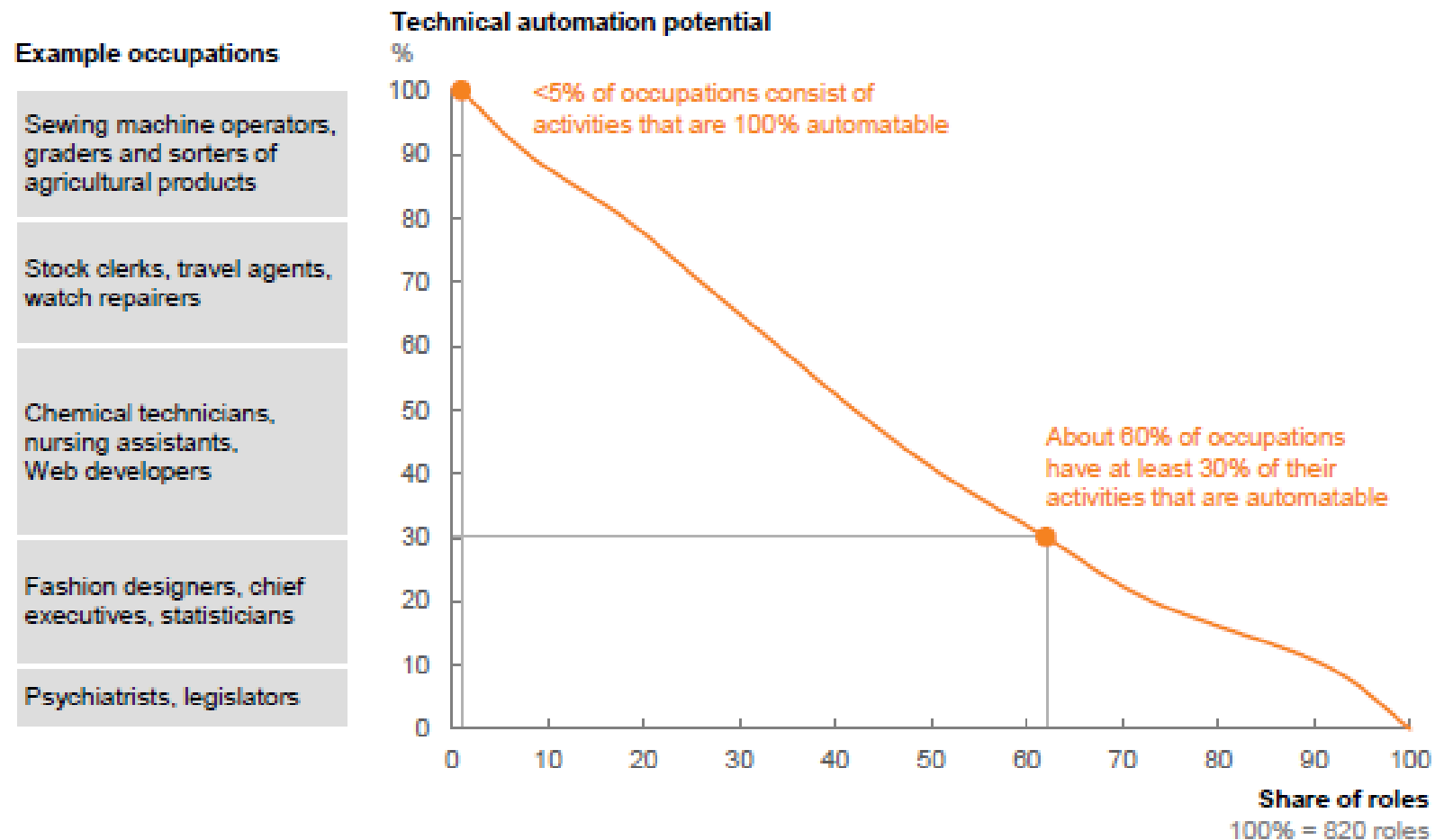
Y a-t-il encore un pilote ?



Source: ICAO, Flyer magazine , La Tribune



Automation potential based on demonstrated technology of occupation titles in the United States (cumulative)¹



¹ We define automation potential according to the work activities that can be automated by adapting currently demonstrated technology.

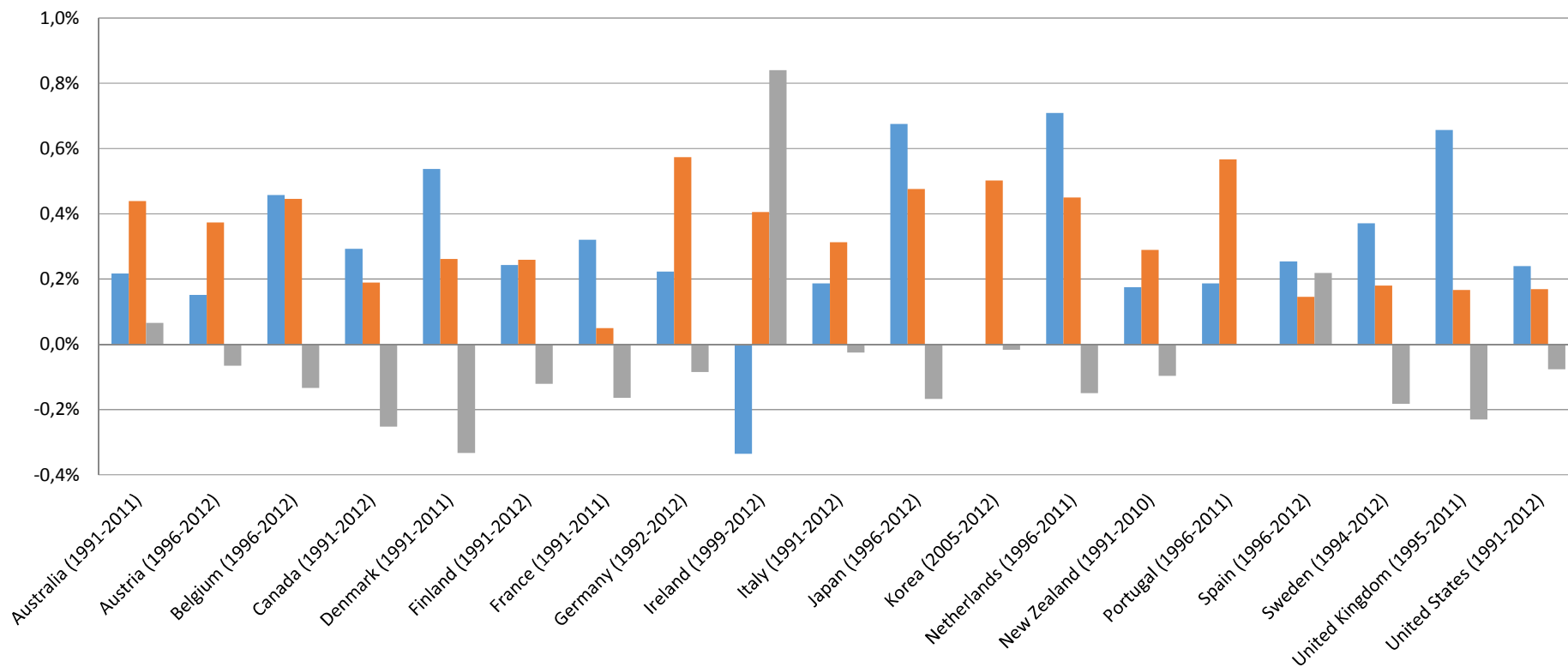
SOURCE: US Bureau of Labor Statistics; McKinsey Global Institute analysis

Complémentarité vs. substitution: quel résultat ?

Estimated employment growth due to growth in ICT capital (1995-2012)

Average yearly rates

■ Before 2001 ■ Between crises ■ After 2007



Source: OECD (2016) New Markets and New Jobs

Un petit exercice de projection



Sommes-nous capables de piloter avec l'algorithme...



...ou pilotons-nous nos démocraties comme Loft son Lockheed Tri-Star ?

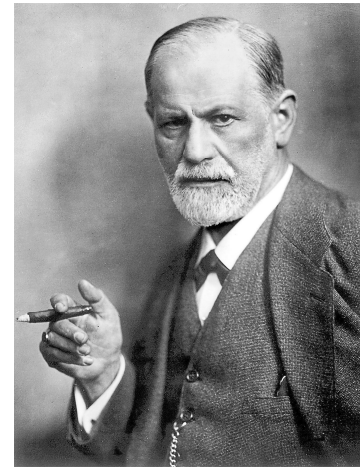


The Data That Turned the World Upside Down

HG

Hannes Grassegger and Mikael Krogerus
Jan 28 2017, 3:15pm

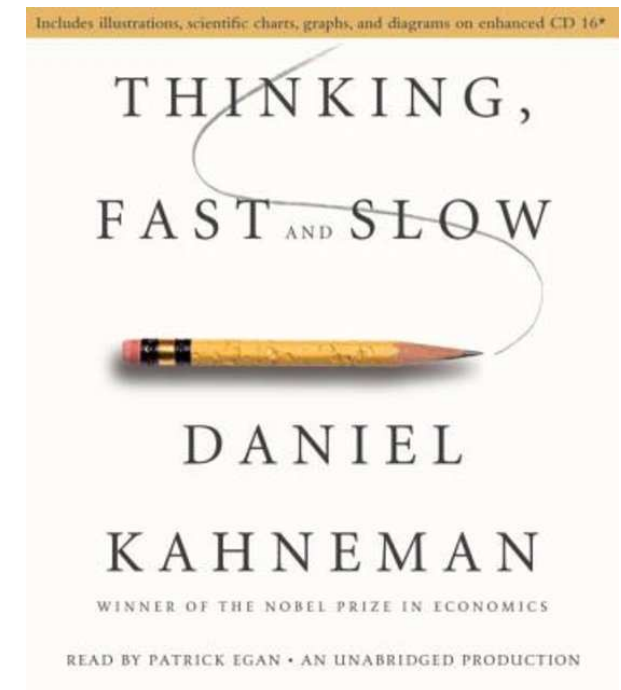
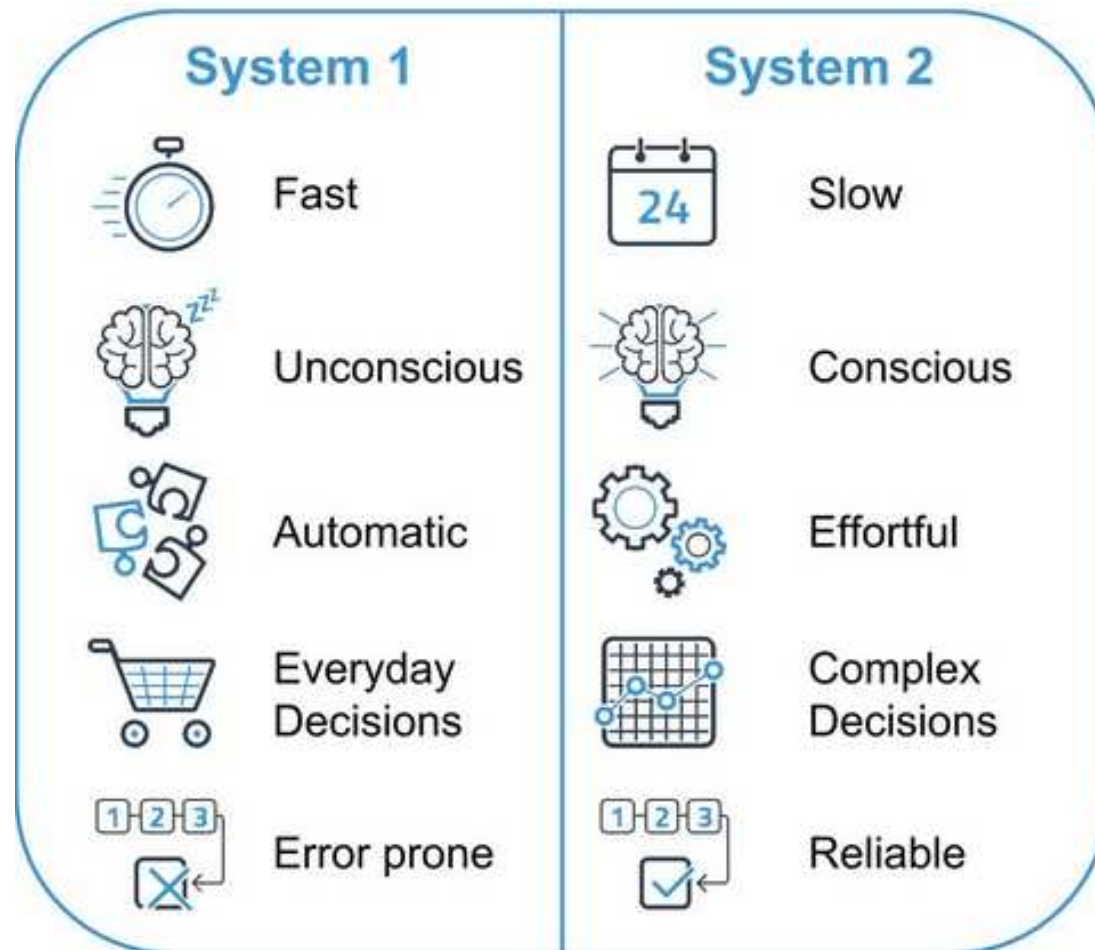
Notre conception de l'homme est étroitement liée au progrès techno-scientifique



We are information organisms (“inforgs”), mutually connected and embedded in an informational environment (“infosphere”), which we share with other informational agents, both natural and artificial, that also process information logically and autonomously

Luciano Floridi – The Fourth Revolution

Comment prenons-nous des décisions ?



Notre processus de décision est “biaisé”

1. Biais de similarité
2. Biais de confirmation
3. Biais de disponibilité
4. What I see is all there is (WYSIATI)

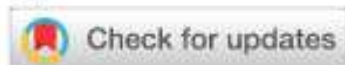


Tech Artificial Intelligence

The Struggle to Make AI Less Biased Than Its Creators

By Peter Rejcek - Jan 31, 2017  7

[Home](#) > [Current Issue](#) > vol. 111 no. 24 > Adam D. I. Kramer, 8788–8790, doi: 10.1073/pnas.1320040111



Experimental evidence of massive-scale emotional contagion through social networks

Adam D. I. Kramer^{a,1}, Jamie E. Guillory^{b,2}, and Jeffrey T. Hancock^{b,c}

[Author Affiliations](#) 

Edited by Susan T. Fiske, Princeton University, Princeton, NJ, and approved March 25, 2014 (received for review October 23, 2013)

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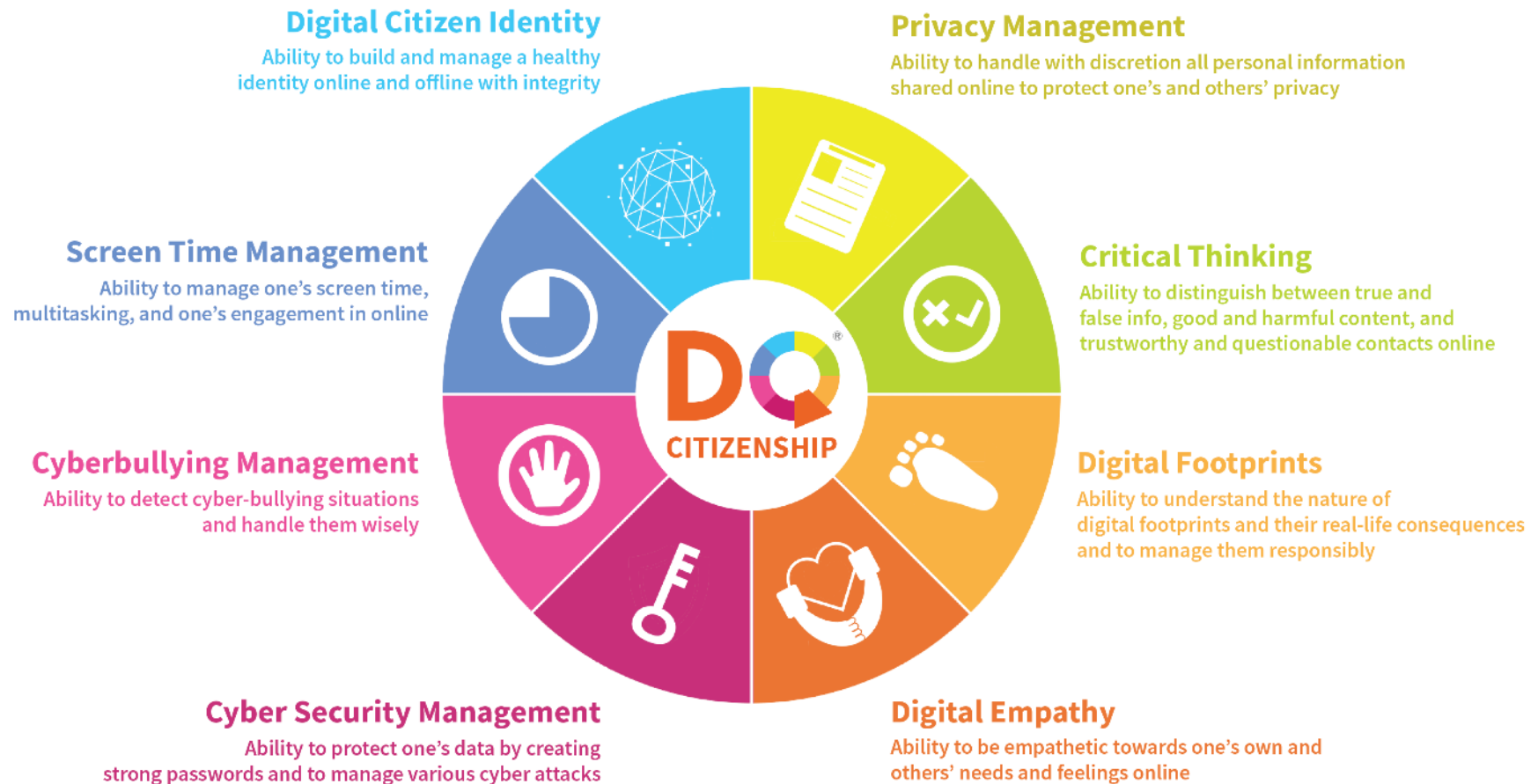
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Don't Miss

Quelles bases pour un “humanisme numérique” ?

1. Apprendre pour devenir “numériquement (plus) intelligent”

Quelles bases pour un “humanisme numérique” ?



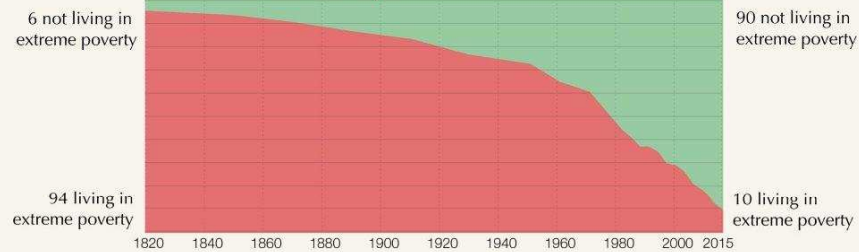
Quelles bases pour un “humanisme numérique” ?

1. Apprendre pour devenir “numériquement (plus) intelligent”
2. Faire reposer la gouvernance des données (big data) sur l’usage et non exclusivement sur la propriété
3. Redécouvrir l’oubli et le secret
 - Cf le débat sur le chiffrement (“encryption”)
4. ...

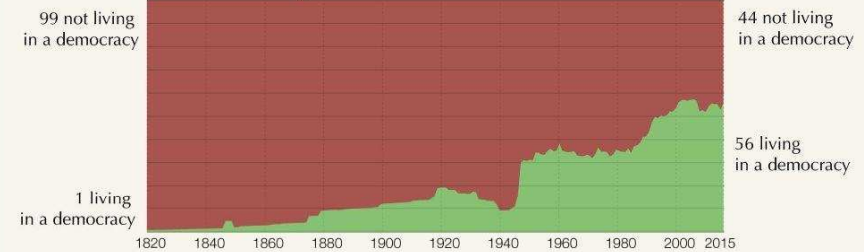
The World as 100 People over the last two centuries

Our World
in Data

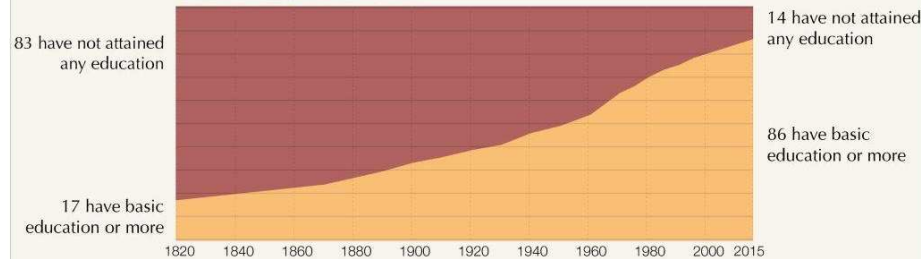
Extreme Poverty



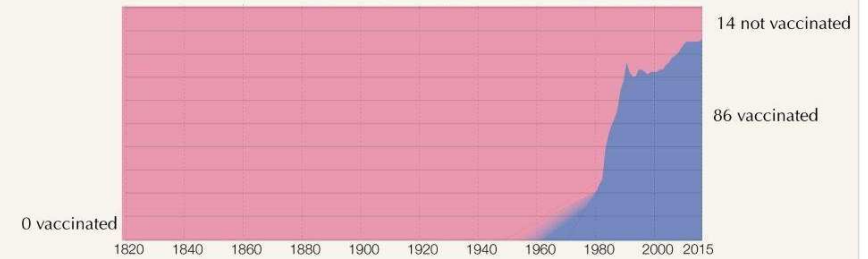
Democracy



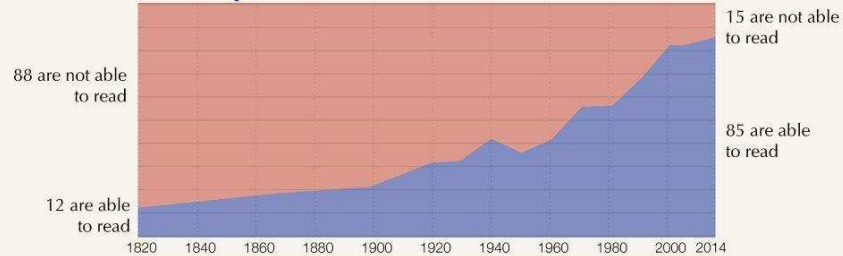
Basic Education



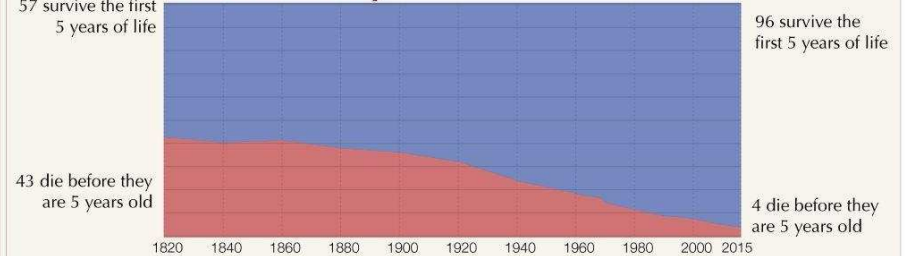
Vaccination against diphtheria, pertussis (whooping cough), and tetanus



Literacy

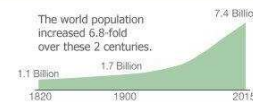


Child Mortality



Data sources:

Extreme Poverty: Bourguignon & Morrison (2002) up to 1970 – World Bank 1981 and later (2015 is a projection).
 Vaccination: WHO (Global data are available for 1980 to 2015 – the DPT3 vaccination was licensed in 1949).
 Education: OECD for the period 1820 to 1960, IIASA for the time thereafter.
 Literacy: OECD for the period 1820 to 1990, UNESCO for 2004 and later.
 Democracy: Polity IV index (own calculation of global population share)
 Colonialism: Wimmer and Min (own calculation of global population share)
 Continent: HYDE database
 Child mortality: up to 1960 own calculations based on Gapminder; World Bank thereafter



All these visualizations are from OurWorldInData.org an online publication that presents the empirical evidence on how the world is changing.

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