



Institut Mines-Télécom
Business School

Entendre l'Anthropocène

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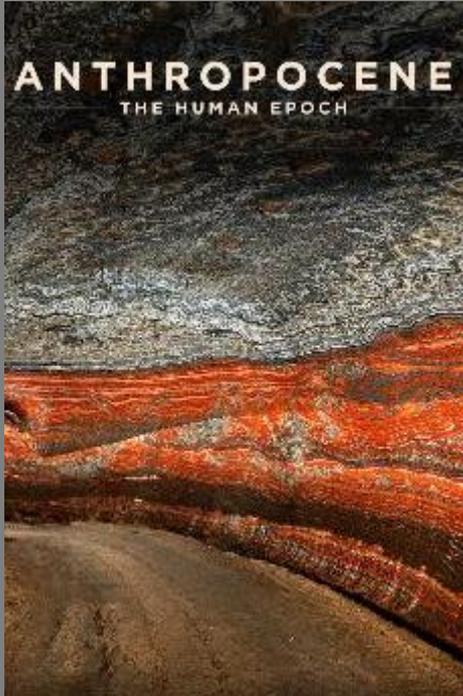
Mardi 13 septembre 2020, séminaire “Chercher sa voie-x”

<https://www.imt-bs.eu/seminaire-en-ligne-chercher-sa-voie-x>

AU PROGRAMME...

1. Anthropocène Anthropocène...
2. Un dialogue de sourds ?
3. Mes deux centimes
4. Prendre l'Anthropocène au sérieux

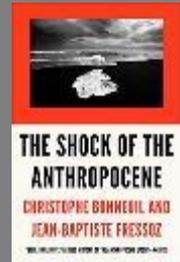
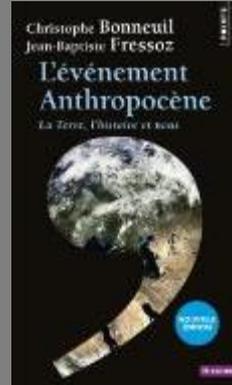
1. Anthropocène Anthropocène...



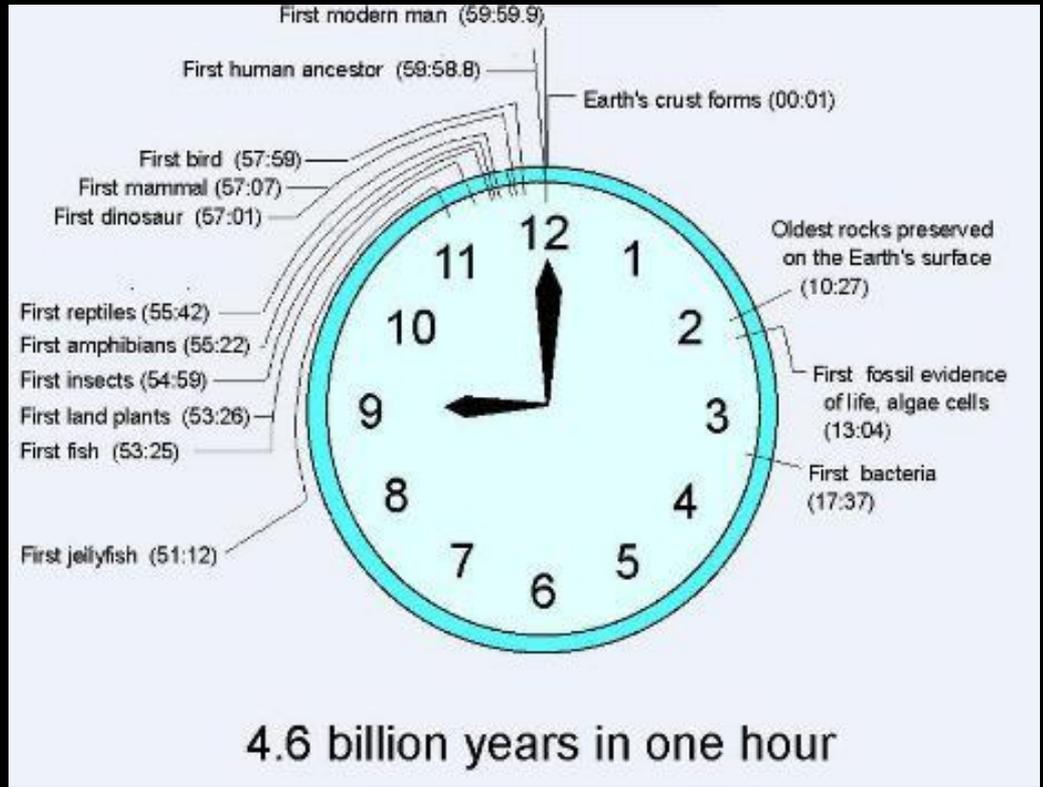
<http://www.metropolefilms.com/index.php/filmlink?id=30638a26-6f1d-e811-9449-0ad9f5e1f797>



L'Anthropocène est la période, dans la chronologie géologique, où les humains ont sorti la planète de ses limites écologiques.



Homo sapiens : jeune espèce & grands impacts



http://jan.ucc.nau.edu/irm22/lessons/timeline/24_hours.html

UNE LONGUE HISTOIRE DE CHASSEURS-CUEILLEURS



Homo sapiens

-300 000



<https://en.wikipedia.org/wiki/Hunter-gatherer>

-10 000



https://fr.wikipedia.org/wiki/Histoire_de_l'agriculture

1782

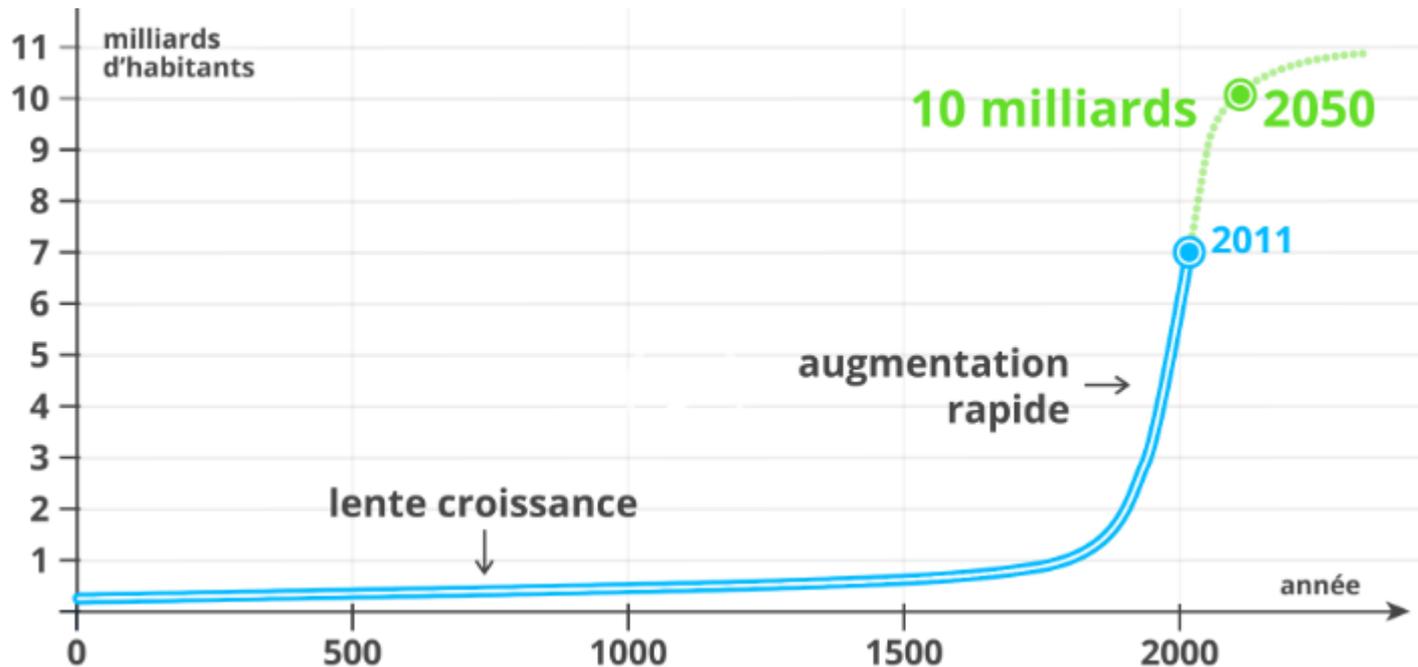


https://en.wikipedia.org/wiki/Watt_steam_engine

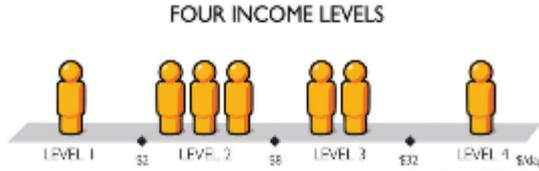
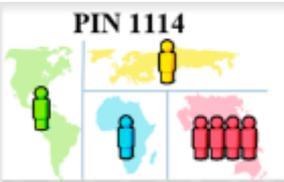


https://en.wikipedia.org/wiki/Industrial_Revolution

DES CHANGEMENTS RÉCENTS : LA DEMOGRAPHIE



DES CHANGEMENTS RÉCENTS : LES STYLES DE VIE

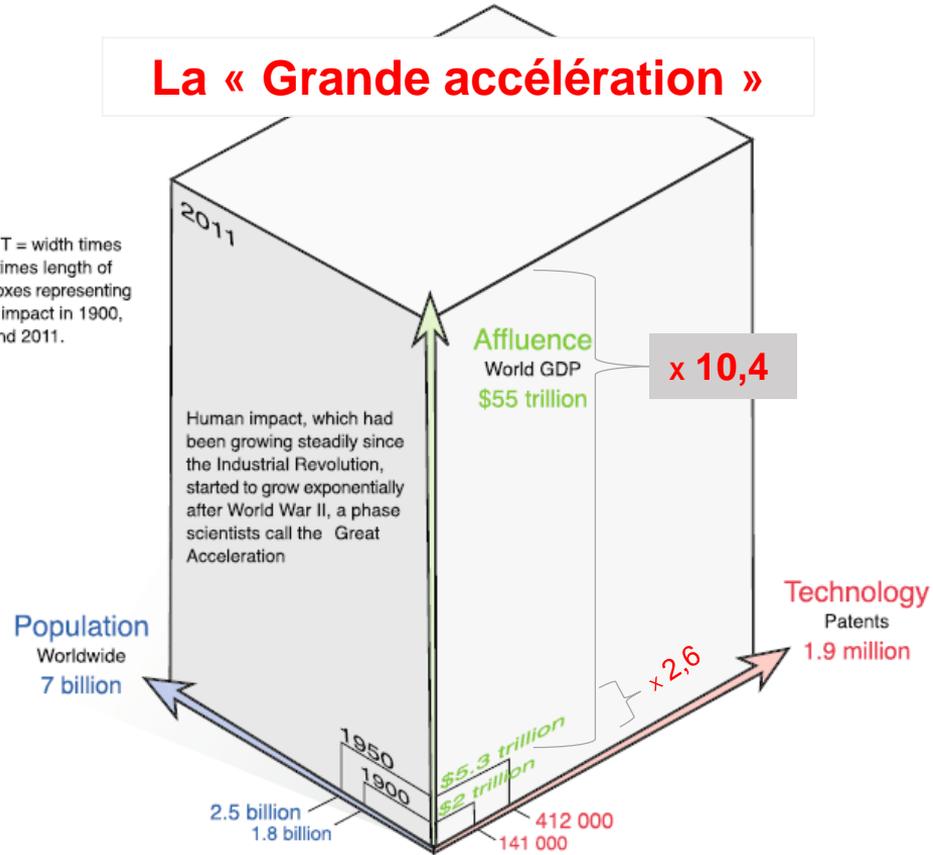


LIFE ON THE FOUR INCOME LEVELS



La « Grande accélération »

$P \times A \times T =$ width times height times length of three boxes representing human impact in 1900, 1950 and 2011.

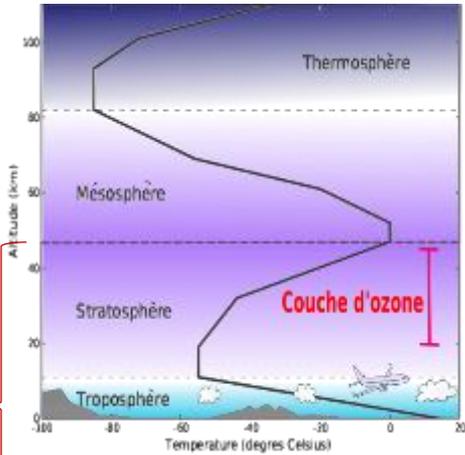


Source : Steffen W. et al. (2011). The anthropocene: from global change to planetary stewardship. *Ambio* 40(7): 739-761.



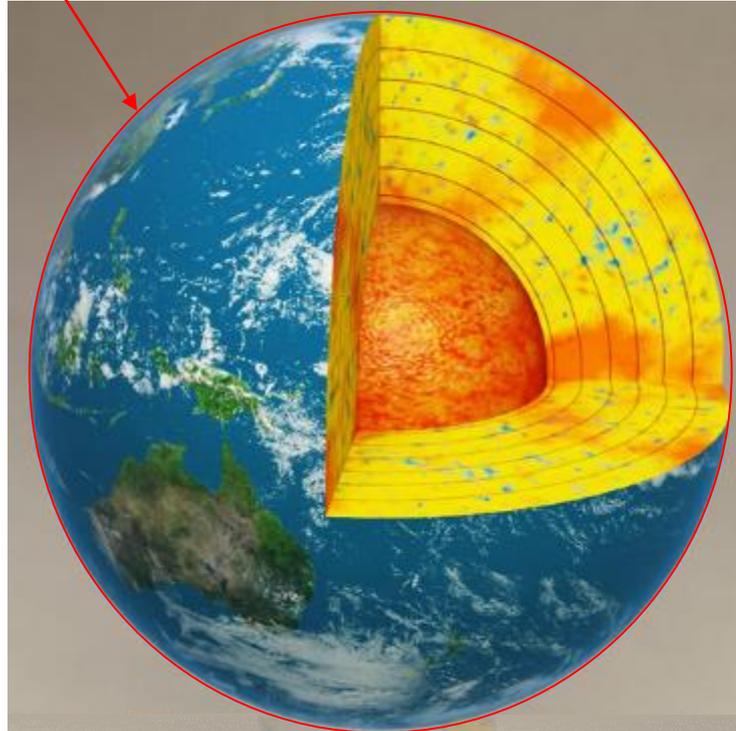
UN FRAGILE ESPACE VITAL...

Biosphere [-11000 m. → +6000 m.]
(Vernadsky, 1929)



Ecosphère

(L.C. Cole, 1958)



Gas	Pre-1750 tropospheric concentration ¹	Recent tropospheric concentration ^{2,3}
Concentrations in parts per million (ppm)		
Carbon dioxide (CO ₂)	~280 ⁷	399.5 ^{2,8}

https://cdiac.ess-dive.lbl.gov/pns/current_ghg.html

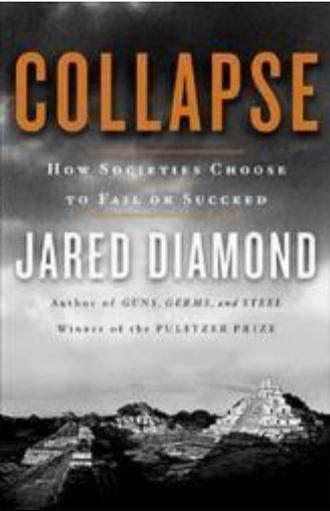
Zone soutenant la vie
(troposphère & couche d'ozone stratosphérique = 45 km + océans 10 km)

$$= \frac{55 \text{ km}}{6400 \text{ km}} = 0,009 = 0,9\% : <1\%$$

(rapporté à à 10 cm = 1 mm)



UN RISQUE D'EFFONDREMENT

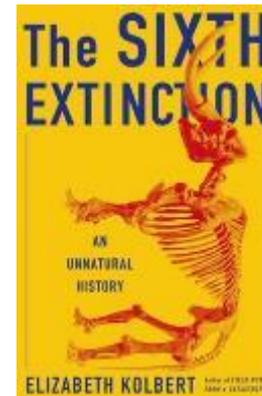


Source:

http://en.wikipedia.org/wiki/Collapse:_How_Societies_Choose_to_Fail_or_Succeed



Source: http://www.ted.com/talks/jared_diamond_on_why_societies_collapse
(18 minutes; 2,5 million views)



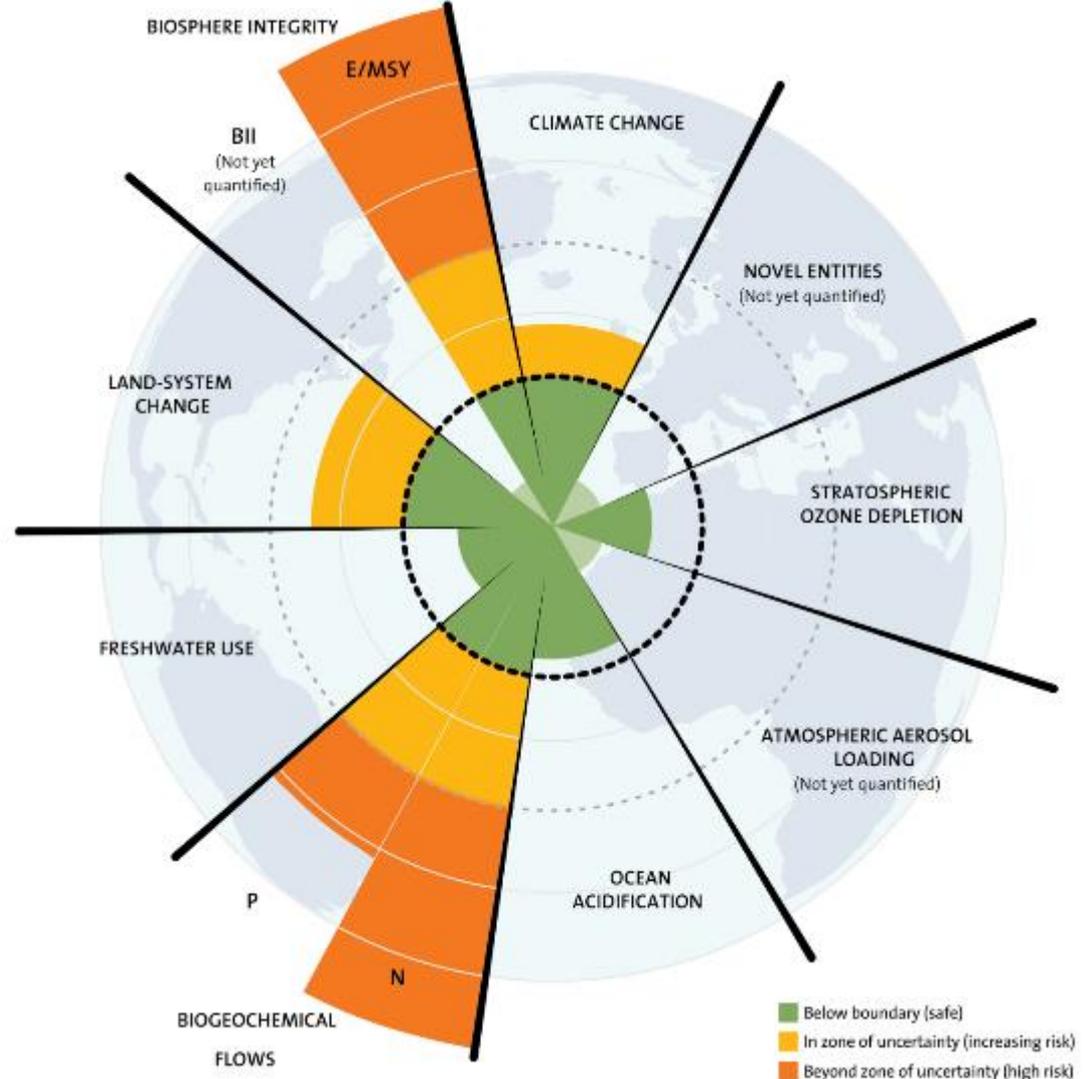
https://en.wikipedia.org/wiki/Elizabeth_Kolbert



<https://www.newyorker.com/magazine/2019/05/20/climate-change-and-the-new-age-of-extinction>

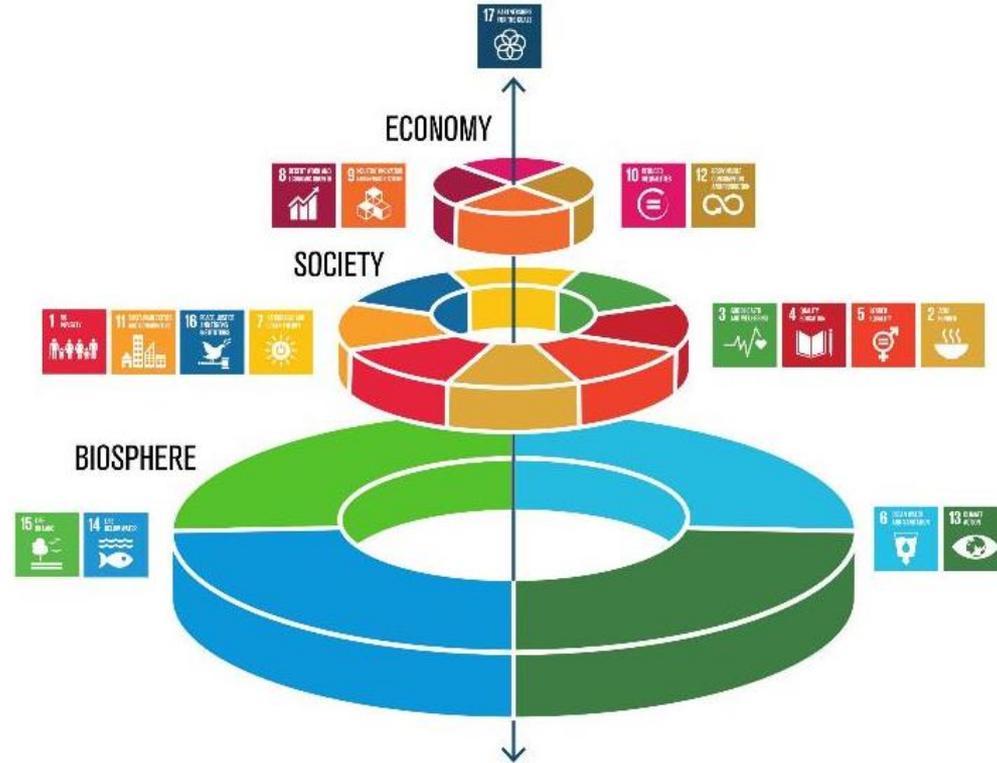
LES 9 LIMITES PLANÉTAIRES

“The planetary boundaries framework defines a **safe operating space** for humanity based on the intrinsic biophysical processes that regulate the stability of the Earth System.”



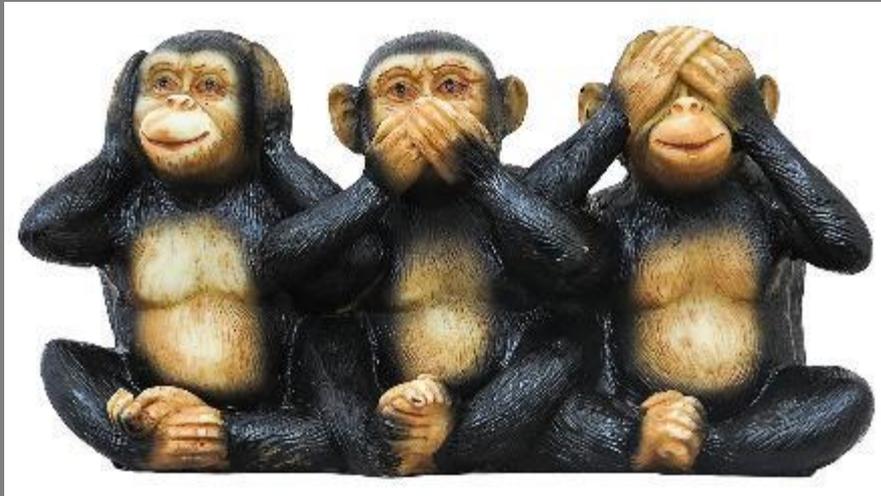
DES OBJECTIFS MONDIAUX

Les 17
Objectifs de
Développement
Durable (ODD)



2. Un dialogue de sourds ?

Les sciences de gestion prennent-elles
l'Anthropocène au sérieux ?



Surdit  des sciences de gestion face aux grands enjeux de l'humanit  ?



DES TRAVAUX ACADÉMIQUES DÉCONNECTÉS DES ÉCOSYSTÈMES NATURELS

Des analyses mono-parties prenantes

Due to the centrality of corporations within modern economies and societies, multinationals have long been conceptualized as important sources of environmental degradation (Hart, 1995). Yet studies on corporate sustainability continue to remain disconnected from the declining state of Earth systems. In this paper, we argue that the scientific framework of Planetary Boundaries provides us with a rich and detailed foundation for management studies on corporate sustainability.

JOURNAL OF
MANAGEMENT STUDIES

Journal of Management Studies 50:2 March 2013
doi: 10.1111/j.1467-6486.2012.01073.x

Planetary Boundaries: Ecological Foundations for
Corporate Sustainability

Gail Whiteman, Brian Walker and Paolo Perego

DES STRATÉGIES D'ENTREPRISE DÉCONNECTÉES DES ÉCOSYSTÈMES NATURELS

Une vision court-termiste de la société

RSE = « Business as usual »

“In relation to climate change for instance, some **corporations uphold an illusion of compromise** between the environment and the market by adapting the meaning of concepts such as ‘CSR’ and ‘sustainability’ to fit existing corporate agendas and expand the capitalist imaginary.”

Future imaginings: organizing in
response to climate change

Christopher Wright
The University of Sydney Business School, Australia

Daniel Nyberg
Nottingham University Business School, UK

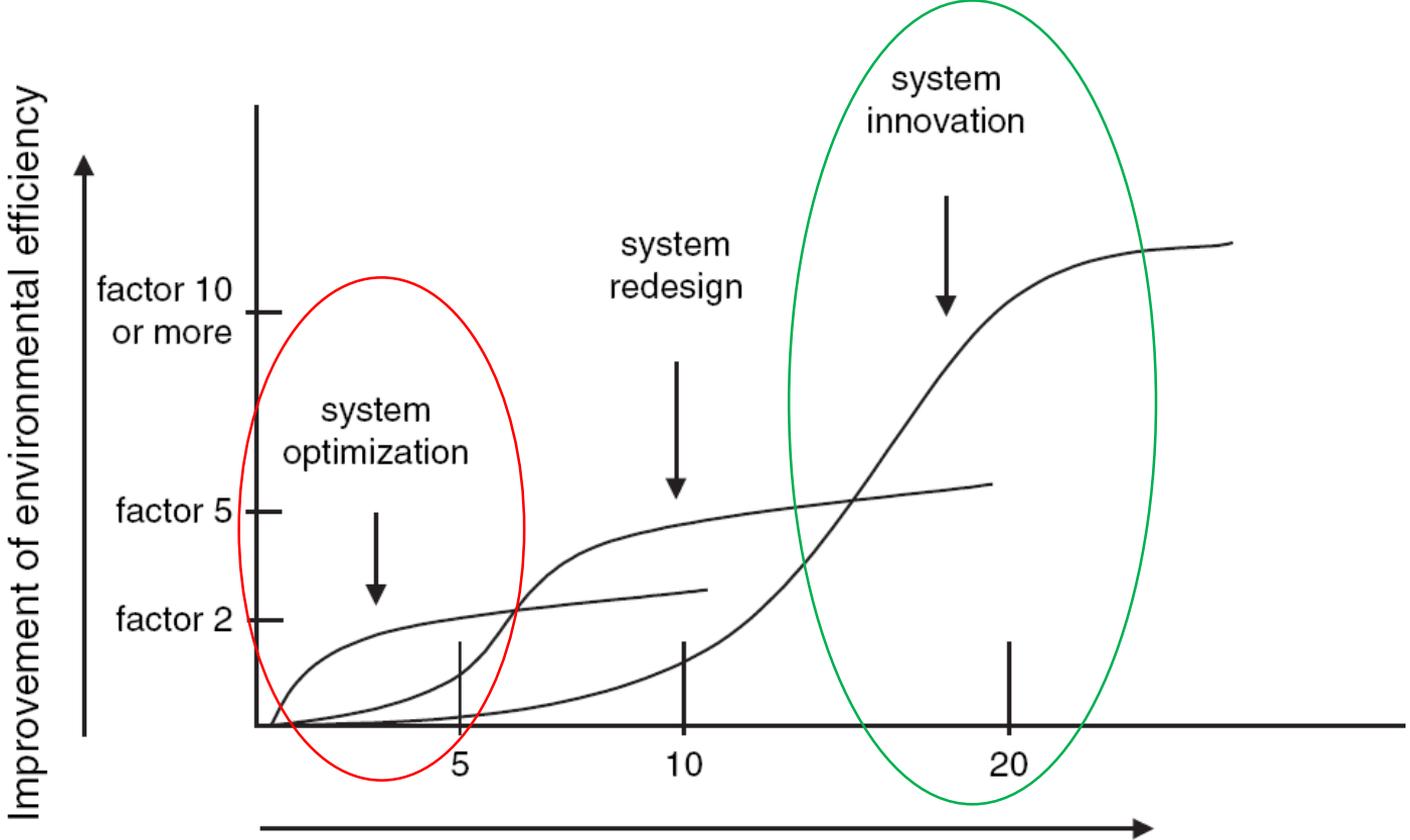
Christian De Cock
Essex Business School, University of Essex, UK

Gail Whiteman
Rotterdam School of Management, Erasmus University, Netherlands

Organization:
20(5) 647-658
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DOI: 10.1177/1350508413489821
org.sagepub.com
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UN MANQUE D'ANALYSES SYSTÉMIQUES

Une vision court-termiste de la société



Source: Tukker, A. and M. Butter (2007). Governance of sustainable transitions: about the 4(0) ways to change the world. *Journal of Cleaner Production* 15(1): 94-103.

DES CONCEPTS OBSOLÈTES

Exemple : les éco-innovations



Continuous improvements in a given technology strengthens its market => lock-in.

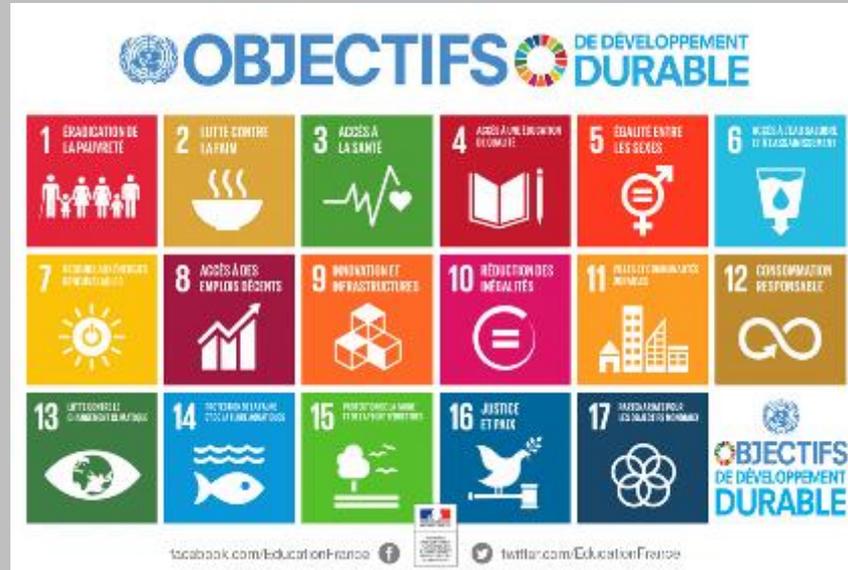
Internal combustion engine (ICE): environmentally improved by **efficiency inventions** (direct fuel injection, particle filters, new combustion concepts).

ICE: strong and persistent dominant design, most engine innovations still focused on **incremental changes within this design**, supported on the consumer side by a **demand for incremental changes**.

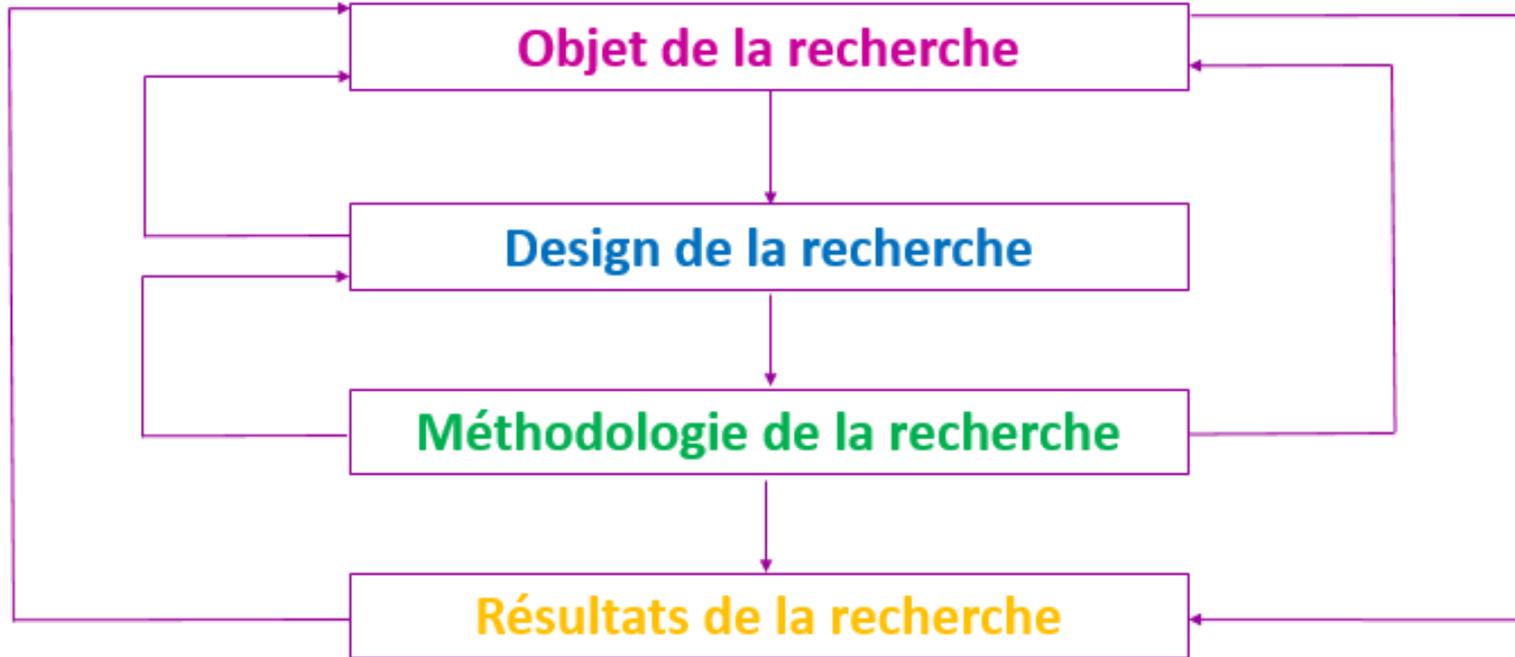
Lock-in and path dependence: an evolutionary approach to eco-innovations

Grazia Cecere · Nicoletta Corrocher ·
Cédric Gossart · Muge Ozman

Sciences de gestion & Anthropocène : s'intéresser aux grands défis de l'humanité



ENTENDRE L'ANTHROPOCÈNE...



Objet de la recherche

Design de la recherche

Méthodologie de la recherche

Résultats de la recherche

LES GRANDS ENJEUX COMME OBJETS DE RECHERCHE

© Academy of Management Journal
2014, Vol. 57, No. 3, 615-623.
<http://dx.doi.org/10.5465/amj.2014.4003>

AMJ 2014

FROM THE EDITORS

CLIMATE CHANGE AND MANAGEMENT

“Climate change is one of the greatest challenges we confront in the 21st century. (...) So, what should we do?”

- Reshaping Value Chains
- Organizational Resilience and Adaptation
- Shifts in Work and Life
- Societal Shifts

© Academy of Management Journal
2015, Vol. 58, No. 6, 1595-1613.
<http://dx.doi.org/10.5465/amj.2015.4006>

AMJ 2015

FROM THE EDITORS

**THE MANAGEMENT OF NATURAL RESOURCES:
AN OVERVIEW AND RESEARCH AGENDA**

However, while scholarly research on business and the environment has been growing (Berchicci & King, 2007), our understanding of the management and the organization of natural resources remains limited, especially regarding its industrial ecosystem of use and trade and its implications for individual behavior, organizational performance, and quality of life.

© Academy of Management Journal
2016, Vol. 59, No. 6, 1090-1096.
<http://dx.doi.org/10.5465/amj.2016.4007>

A Framework for Addressing Grand Challenges

UNDERSTANDING AND TACKLING SOCIETAL GRAND CHALLENGES THROUGH MANAGEMENT RESEARCH

GERARD GEORGE
Singapore Management University

JENNIFER HOWARD-GRENVILLE
University of Cambridge

APARNA JOSHI
Pennsylvania State University

LASZLO TIHANYI
Texas A&M University

AMJ 2016

A Framework for Addressing Grand Challenges

```

    graph TD
      A([Actor Needs and Aspirations]) <--> B([Organizational Constraints])
      B <--> C([Coordinating Architectures])
      C --> D[Articulating and Participating in Grand Challenges]
      E([Societal Barriers]) <--> F([Institutional Contexts])
      F <--> G([Reinforcing Mechanisms])
      D --> H[Multilevel Actions]
      H --> I[Outcomes and Impact]
      G --> I
      I -.-> A
      I -.-> B
      I -.-> C
      I -.-> F
      I -.-> G
  
```

LE CHANGEMENT
CLIMATIQUE COMME
OBJET DE RECHERCHE

© Academy of Management Journal
2017, Vol. 60, No. 5, 1633–1663.
<https://doi.org/10.5465/amt.2015.0718>

AN INCONVENIENT TRUTH: HOW ORGANIZATIONS
TRANSLATE CLIMATE CHANGE INTO BUSINESS AS USUAL

CHRISTOPHER WRIGHT
University of Sydney

DANIEL NYBERG
University of Newcastle

- “corporate actions often regress to a **business-as-usual** approach”
- “**business leadership** on climate change alone **is insufficient**”
- “corporations are particularly ill-suited to address climate change, since their **short-term objectives** and reliance on growth and political interventions inflate the superwickedness of the issue”

Objet de la recherche

Design de la recherche

Méthodologie de la recherche

Résultats de la recherche

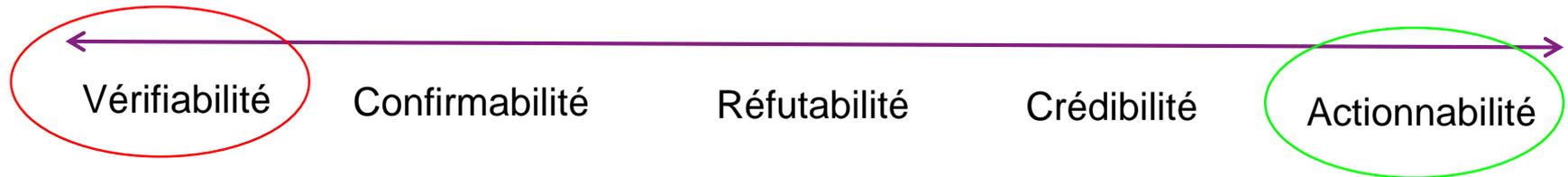
ANTHROPOCÈNE & DESIGN DE LA RECHERCHE

Questionner ses choix épistémologiques

Qu'est-ce qu'une connaissance valable pour moi ?

Correspondance

Adéquation



QUESTIONNER SES CHOIX ÉPISTEMOLOGIQUES

Editorial

The Spirit of Science and Socially Responsible Scholarship

Anne S. Tsui^{1,2,3,4}

¹Arizona State University, U.S.A., ²Fudan University, China

⁴Shanghai Jiao Tong University, China

Management and Organization Review 9:3, November 2013, 375–394
doi: 10.1111/more.12035

“From paper-motivated research to context-sensitive scholarship”

“Directing research toward improving school ranking and influencing promotion and tenure decisions without considering whether the research is relevant to practice is no better than corporations and their managers improving the organization’s wealth to benefit only shareholders and themselves. Condoning or engaging in questionable research practices is not only socially irresponsible, it is morally wrong.”

QUESTIONNER SA VISION DU MONDE

Future imaginings: organizing in response to climate change

Organization
2013, Vol. 46(3), 463-488
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DOI: 10.1177/0009694113508862
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Christopher Wright
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Gail Whiteman
Rotterdam School of Management, Erasmus University, Netherlands

Organizing in the Anthropocene

Organization
2018, Vol. 51(3), 464-491
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DOI: 10.1177/0009694117735449
journals.sagepub.com/home/org
SAGE

Christopher Wright 
The University of Sydney, Australia

Daniel Nyberg
The University of Newcastle, Australia

Lauren Rickards
RMIT University, Australia

James Freund
Lancaster University, UK

- “climate change not only presents real, physical threats but also challenges the way we conceive of **the broader economic, political and social order**”
- “need to view climate change as a social and politically embedded phenomenon, fundamentally linked to patterns of production and consumption and the **ideological assumptions** that underpin the economic system and our collective sensemaking processes”
- “**the Anthropocene is the crucial issue for organizational scholars** to engage with in order to not only understand on-going anthropogenic problems but also help create alternative forms of organizing based on **realistic Earth-human relations.**”
- **5 key organizing narratives:** business-as-usual, ecomodernism, social movements, systemic changes, organising culture.

EXEMPLE 1 : « IMPACT ENTREPRENEURS »

Questionner le rôle des
acteurs dominants

E PLURIBUS UNUM: IMPACT ENTREPRENEURSHIP AS A SOLUTION TO GRAND CHALLENGES

Journal:	Academy of Management Perspectives
Manuscript ID:	AMP-2019-0130.R2
Document Type:	Symposium
Keywords:	Entrepreneurship (General) < Entrepreneurship < Topic Areas, Social Issues in Management < Topic Areas, Ecological economics < Theoretical Perspectives, Theories of sustainable development < Theoretical Perspectives

- MS need to go « beyond the generation of economic returns for firms and their **primary stakeholders**”
- “**entrepreneurs lack the knowledge**, skills, authority and resources necessary to resolve grand challenges”
- “most research examines phenomena at the individual, group and/or organizational **level of analysis**”
- “citizens from the communities being helped are not just **passive beneficiaries**”
- “reliance on **heroic actors** [...] who seem to singlehandedly and swiftly change big institutions”
- “in many sustainability contexts, **no single actor** has the scale, skills, resources or even the authority to be the catalytic leader”

EXEMPLE 2 : « FRINGE STAKEHOLDERS »

Adopter une vision
multi-parties prenantes => ne pas
oublier les acteurs marginalisés

Journal of Business Ethics (2018) 152:965–976
<https://doi.org/10.1007/s10551-018-3824-3>

ORIGINAL PAPER

Transformational Business Models, Grand Challenges, and Social Impact

Ignasi Martí^{1,2,3} 

- “traditional literature on business models paid only limited attention to social and environmental challenges”
- “Emerging research highlights the importance of studying social and environmental consequences of new business models”
- “business models are generally perceived from ‘a value creation perspective that focuses on satisfying customer needs, economic return and compliance”
- interactive business models create new sources of revenue & enhance the living conditions of the poor (...) “which requires an intense implication of fringe stakeholders and interactions with them”
- When a credit officer asked her to go to the market to sell their products, she responded with some shock: “How can I go to the market? I am a woman!”

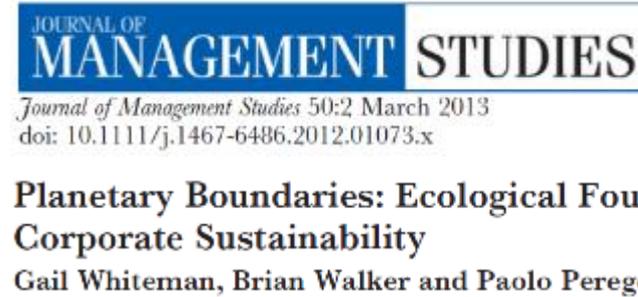
INTERDISCIPLINARITÉS

Exemple 1



- Study carbon disclosure field
- Variety of theories (sociopolitical, economics, institutional, ...)
- MS literature: focus on factors driving CD
- Few links to theories in CD literature
- CD research could use the financial disclosure literature

Exemple 2



“it is time for corporate sustainability scholars to reconsider the ecological and systemic foundations for sustainability, and to integrate our work more closely with the natural sciences”

Objet de la recherche

Design de la recherche

Méthodologie de la recherche

Résultats de la recherche

DIVERSIFIER SES MÉTHODES DE RECHERCHE

Qu'est-ce que je veux faire avec ma recherche ?

Expliquer

Prédire

Comprendre

Changer

Academy of Management Perspectives

Bridging the Research–Practice Gap

by Pratima Bansal, Stephanie Bertels, Tom Ewart, Peter MacConnachie, and James O'Brien

Action Research

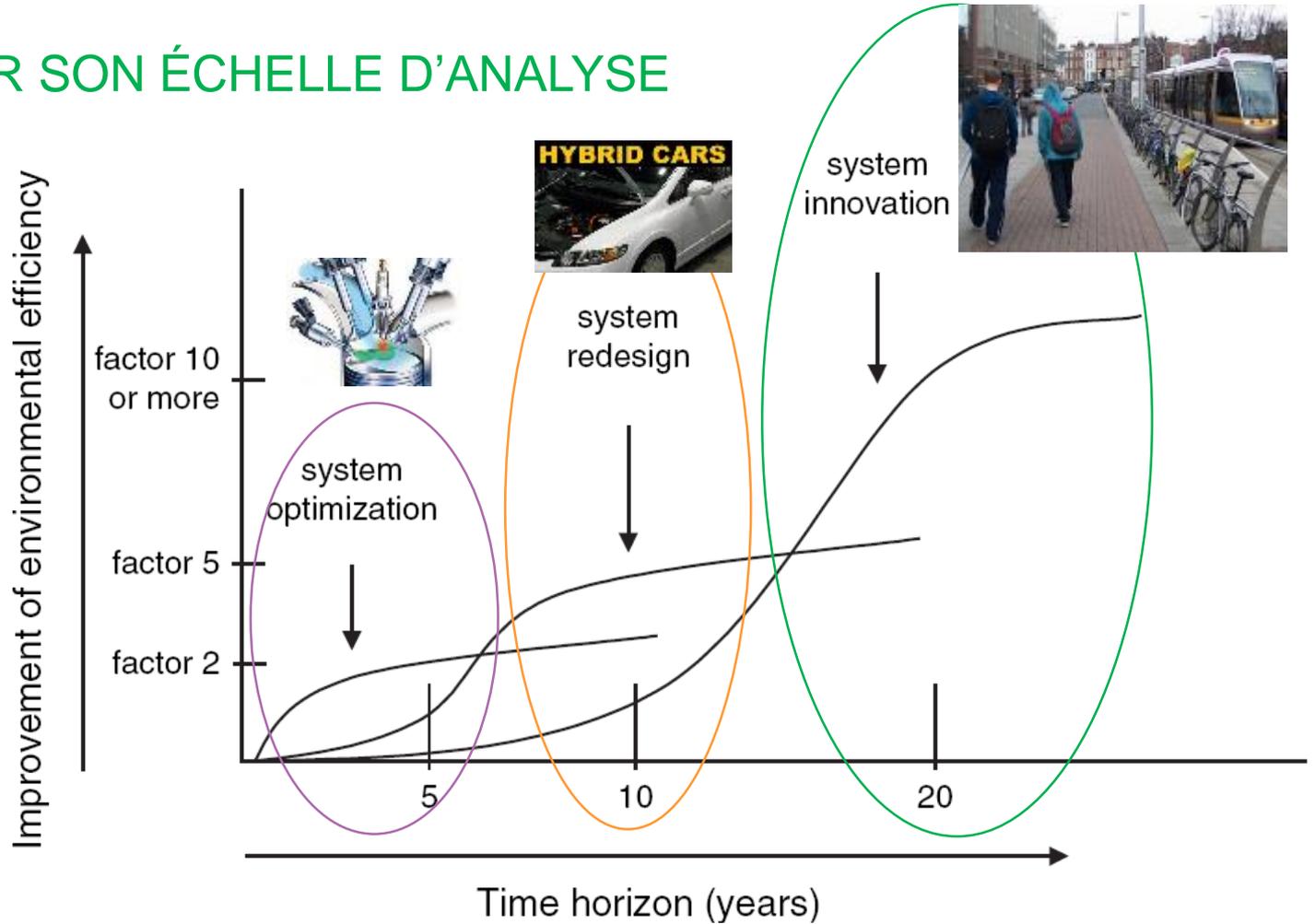
Volume 1(1) 9–28, 03/2011 [1476-7509(201007)1:1]
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London, Thousand Oaks, CA, New Delhi
www.sagepublications.co.uk

AR

EDITORIAL | Why action research?

Mary Brydon-Miller
University of Cincinnati, USA
Davydd Greenwood
Cornell University, USA
Patricia Maguire
Western New Mexico University, USA
and members of the editorial board of *Action Research*²

QUESTIONNER SON ÉCHELLE D'ANALYSE





SWG 15: Organization Studies in the Anthropocene: System Change, Not Climate Change

Coordinators

- ☑ Paul S. Adler, University of Southern California, USA
- ☑ Bobby Banerjee, City University of London, UK
- ☑ Zlatko Bodrožić, University of Leeds, UK
- ☑ Ekaterina Chertkovskaya, Lund University, Sweden
- ☑ John M. Jermier, University of South Florida, USA
- ☑ Ana Maria Peredo, University of Victoria, Canada

QUESTIONNER LES CONCEPTS

Exemple :

“Transformational Business Models”

Journal of Business Ethics (2018) 152:965–976
<https://doi.org/10.1007/s10551-018-3824-3>

ORIGINAL PAPER

Transformational Business Models, Grand Challenges, and Social Impact

Ignasi Marti^{1,2,3} 

- “interpretations of business models remain diverse”
- “while some may regard this as a problem, we see it as an opportunity for researchers -especially those interested in entrepreneurship, strategy, and innovation- to **challenge, question, and rethink concepts and assumptions** from different fields of management research.”
- “**how business models (...)** may impact the quality of life of the poor, the disenfranchised, the marginalized, and even on nonhuman stakeholders”
- Ex.: “the dominant microfinance business model was **too rigid** in design and institutionalized practices to help the neediest.”
- “one way to enrich current discussions about the design and implementation of business models (...) is to **build on the rich literature on ‘grand challenges’**”

EX. : "CRÉATION DESTRUCTRICE" ?

Philippe Aghion :

"L'innovation,
c'est le progrès"



<https://www.franceinter.fr/emissions/l-invite-de-8h20-le-grand-entretien/l-invite-de-8h20-le-grand-entretien-12-octobre-2020>

Prof. Luc Soete, UNU-MERIT



**Science, technology and innovation:
From creative destruction to destructive
creation**

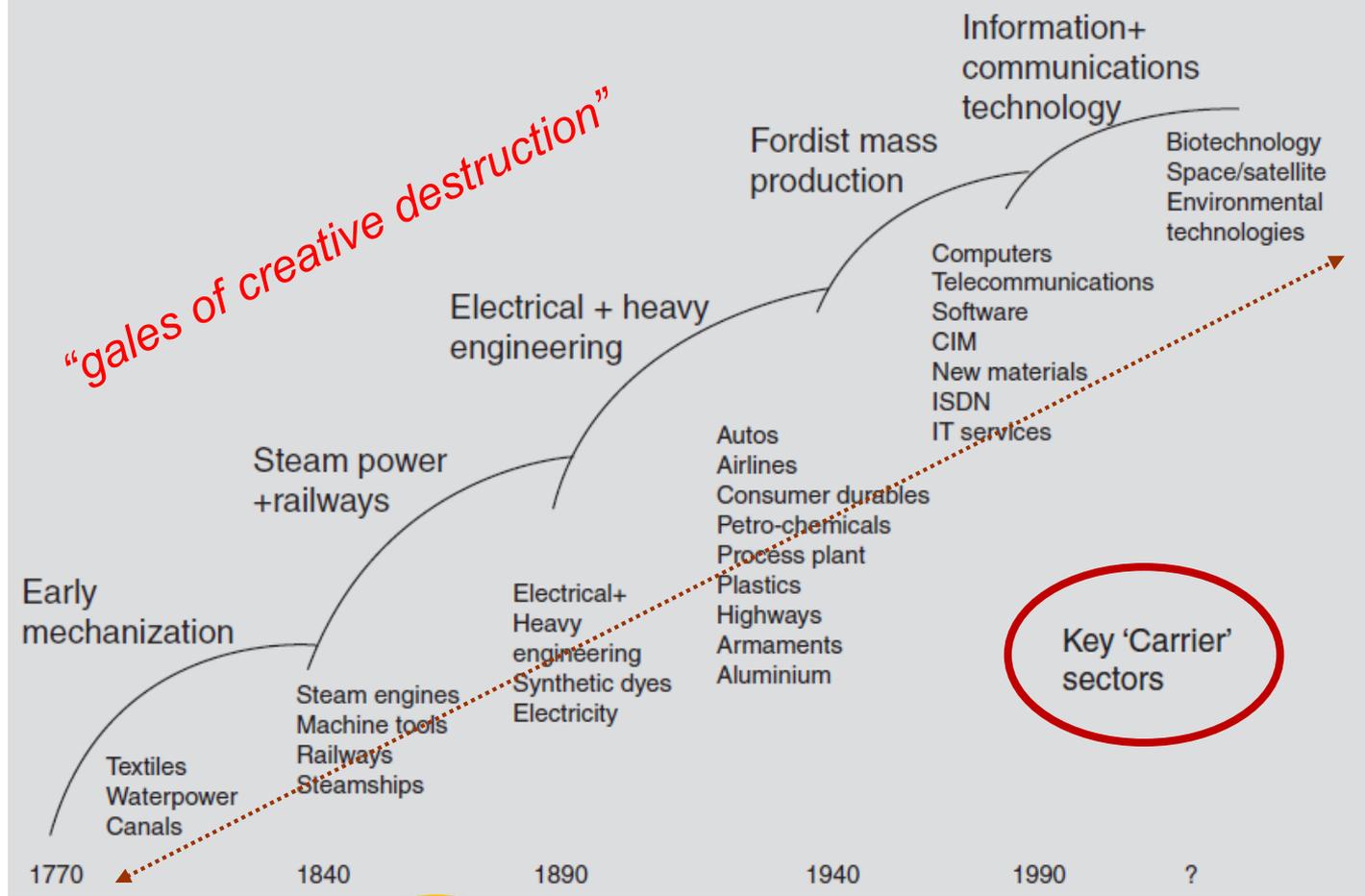
"Innovation is good for you" appears a common feature of most science, technology and innovation studies over the last decades. In many ways this is surprising given the fact that innovation failure rather than innovation success appeared a much more common feature in micro innovation studies as highlighted amongst others in the early SAPPHO project from SPRU. Hence the simple, but straightforward question which will be central in this Marie Jahoda lecture: could it be that innovation is not always good for you? That at a societal level, innovation rather than representing a Schumpeterian process of "creative destruction" renewing society's dynamics and hence leading to higher levels of economic development and welfare – destroying a few incumbents to the benefit of many newcomers – presents now and then the

<https://www.merit.unu.edu/publications/working-papers/abstract/?id=8048>

Innovation & développement :
une destruction créatrice
aux effets contestés



https://fr.wikipedia.org/wiki/Joseph_Schumpeter



Key production factors

Cotton, pig iron

Coal, transport

Steel

Energy (especially oil)

Microelectronics

Key factor industries

Source: Dodgson et al. (2008). *The Management of Technological Innovation*. Oxford University Press, 2d ed., p. 27, Fig. 2.1.

Objet de la recherche

Design de la recherche

Méthodologie de la recherche

Résultats de la recherche

RÉSULTATS DE RECHERCHE

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2016, Vol. 59, No. 6, 1869–1877.
<http://dx.doi.org/10.5465/amj.2016.4006>

MAKING RESEARCH IMPACTFUL

Beyond the Published Article

FROM THE EDITORS

MANAGEMENT RESEARCH IN *AMJ*: CELEBRATING IMPACT WHILE STRIVING FOR MORE

© Academy of Management Learning & Education, 2014, Vol. 13, No. 4, 625–626. <http://dx.doi.org/10.5465/le.2014.0151>

Scholarly Impact: A Pluralist Conceptualization

HERMAN AGUINIS
Indiana University

DEBRA L. SHAPIRO
University of Maryland

ELENA P. ANTONACOPOULOU
GNOSIS, University of Liverpool

THOMAS G. CUMMINGS
University of Southern California

Revue Française de Gestion

Volume 43 / Numéro 267 (août-septembre 2017)

Recherche en gestion : retrouver du sens

Introduction

Recherche en gestion, le sens mis en pièces p. 67

Jean-Luc Moriceau, Hervé Laroche et Rémi Jardat

Face à la tyrannie des étoiles : révoltons-nous ! p. 133

Aurélien Rouquet

“researchers doing **engaged scholarship** must surmount the “**double hurdle**” of scholarly and practical impact, a difficult task that generally requires treating engaged research as a **vocation** or **calling**, not simply an episodic event leading to a publishable outcome.”

3. Mes deux centimes



My 2 ¢...

<https://gossart.wp.imt.fr>



<https://iness.wp.imt.fr/>



Protection sociale des livreurs de plateformes

<https://iness.wp.imt.fr/alter/>



Fablabs & SDGs (with the French Fablabs Network)



Numérique et éducation

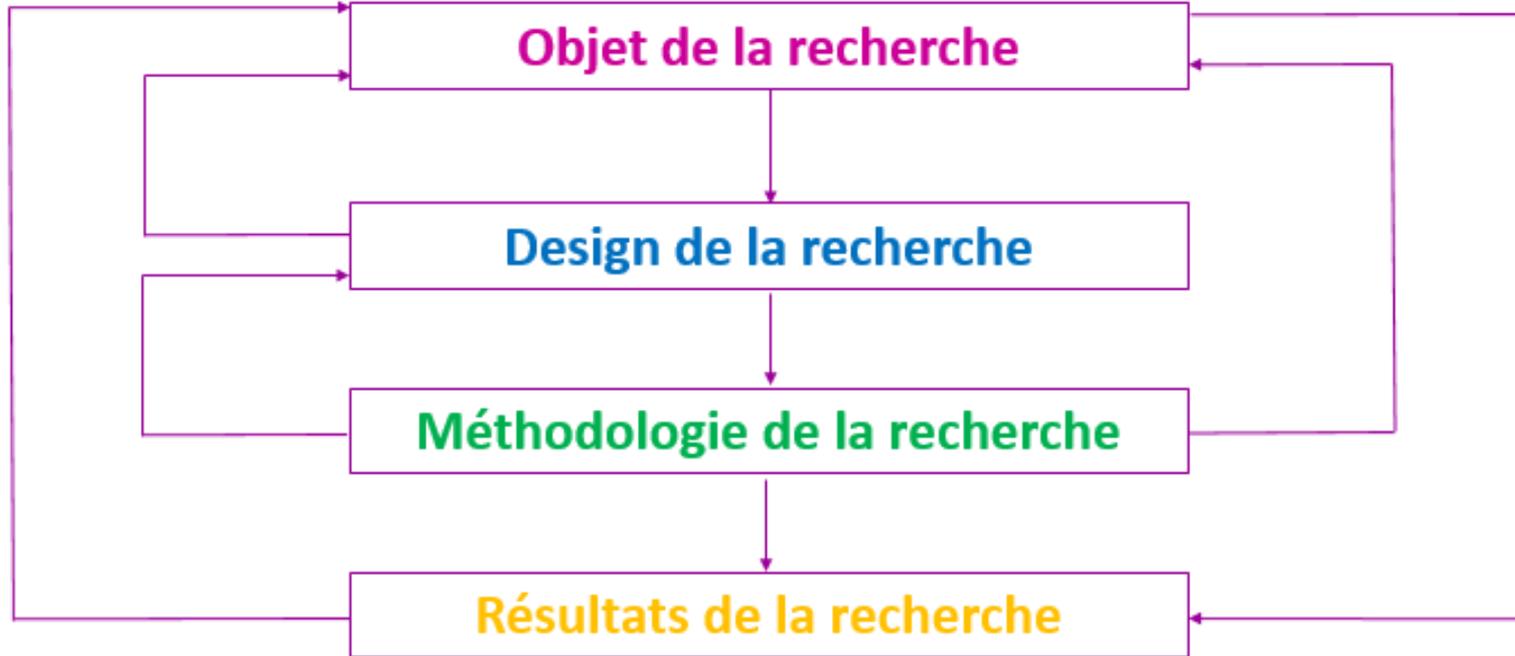
<https://iness.wp.imt.fr/projets-en-cours/numerique-et-education/>

4. Prendre l'Anthropocène au sérieux



http://www.marcobellini.com/index.php?l=111_9449_0a695a11797

ENTENDRE L'ANTHROPOCÈNE...



SCIENCES DE GESTION & ANTHROPOCÈNE



35th EGOS Colloquium



Sub-Plenary 1-2: Grand Challenges: Organizations and the Anthropocene --> FULLY BOOKED!

- Panelists: P. Devereaux (Dev) Jennings [Chair], University of Alberta School of Business, Canada; Andrew (Andy) Hoffman, University of Michigan, USA; Gail Whiteman, Lancaster University School of Management, UK; Judith Walls, University of St. Gallen, Switzerland

67 Critical Organizational Anthropocene Studies

Hervé Corvellec | Alison Stowell | Steffen Böhm

Session VI: Saturday, July 06, 09:00 to 10:30, Organizational Practices I/II

Chair: Hervé Corvellec
 Marcus Wagner

Governance and institutions in new public environmental management: An international and intertemporal comparison of voluntary standards' impacts
 Discussant(s): Alexandre Monnin, Emmanuel Bonnet and Diego Landivar

What the Anthropocene does to organizations
 Discussant(s): Cédric Gossart

Organisational practices and grand challenges: The case of large digital firms
 Discussant(s): Marcus Wagner



Proposal for a Standing Working Group (2021-2024)
 European Group for Organization Studies

ORGANIZATION STUDIES IN THE ANTHROPOCENE: SYSTEM CHANGE, NOT CLIMATE CHANGE

Paul S. Adler, University of Southern California, USA (Lead Coordinator): psadler@marshall.usc.edu

Sub-theme 41: Organizing Innovation and Entrepreneurship in and for a Sustainable Society

Digital technologies and sustainable development: How do digital social innovations scale up?

Müge Ozman¹ & Cédric Gossart²

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Les enseignants en gestion face aux nouvelles injonctions institutionnelles

Une étude France-Québec

Management scientists and the Anthropocene: How can we tackle grand challenges?

Code: GOSANT, Université Paris-Saclay, Univ. Evry, IM-ES, UTEM, 93025, Evry-Courcouronnes

Module PMAQUR, Université Paris Saclay, Réseau International Territoires et Mondialisation, 93310, Evry

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World Scientists' Warning to Humanity: A Second Notice FREE

William J. Ripple, Christopher Wolf, Thomas M. Newsome, Mauro Galetti, Mohammed Alamgir, Eileen Crist, Mahmoud I. Mahmoud, William F. Laurance, 15,364 scientist signatories from 184 countries

BioScience, Volume 67, Issue 12, December 2017, Pages 1026–1028, <https://doi.org/10.1093/biosci/bix125>

Published: 13 November 2017



Le 08 juillet 2019

TRIBUNE

Urgence climatique : universités et grandes écoles mobilisées aux côtés des étudiants pour la réalisation des 17 Objectifs de Développement Durable

In the Face of the Ecological Crisis, Rebellion is Necessary

Recognising governmental inaction in the face of the ecological and climatic emergency, more than 1,000 scientists from all disciplines call for citizens' civil disobedience and their development of alternatives *in (top French newspaper) Le Monde*. They urge political leaders to radically change our economic and production model and to take the proposals of the Citizens' Convention on Climate Change seriously.

This call is inspired by similar initiatives in *The Guardian* and *Le Temps*.



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Thank you.



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