Weak Signals a micro-introduction

Aida Ponce Del Castillo Foresight Unit



In foresight we work with complexity, ambiguity, uncertainty, volatility

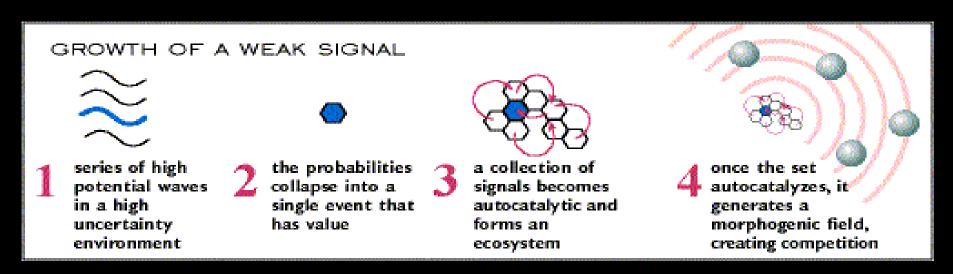
What you see in this environment, may come to your organization.



Weak Signals are early signs of currently small change, 'hints' seeds of change, 'seems random or disconnected'.

The search for weak signals involves identifying "not necessarily important things"

They could be the trigger for major events in the future.



(iKnowfutures.eu, Coffman 1997)



A weak signal is the first indicator of a change or an emerging issue that may become significant in the future. Weak signals are often identified as a part of horizon scanning. 'WS' supplement trend analysis and can be used as a foundation for defining wild cards. **SITRA**

*Scanning for "Weak Signals" is part of the Horizon Scanning process

Phase 1

Phase 2

Phase 3

Phase 4

Methodology Pre-foresight **Foresight Monitoring and** evaluation Literature review and Select the methods Scenarios online Mega Trends Internal Frame the project Roadmapping evaluation Interviews- outside **Ensuring Horizon Scanning** Report delivery Continuity exercises Stakeholder analysis



Characteristics

Novelty: a weak signal is an indicator of something new or a new

perspective on a known subject.

Surprising: a weak signal is surprising to its interpreter.

Challenging: a weak signal forces one to challenge existing assumptions and is

therefore often difficult to detect or easy to overlook.

Significance: a weak signal describes something that may have an impact on

the future.

Delay: a weak signal describes something that is not yet significant but

requires time to mature.

<u>Dufva</u> (2019) What is a weak signal? SITRA. Articles

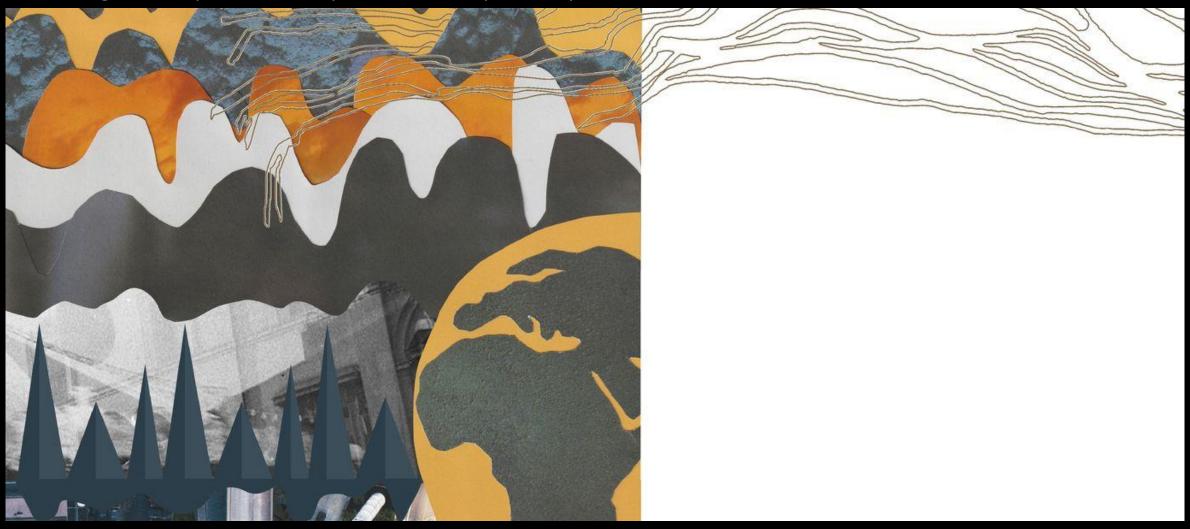


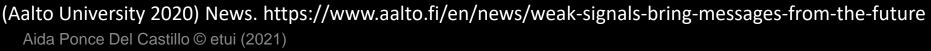
Examples



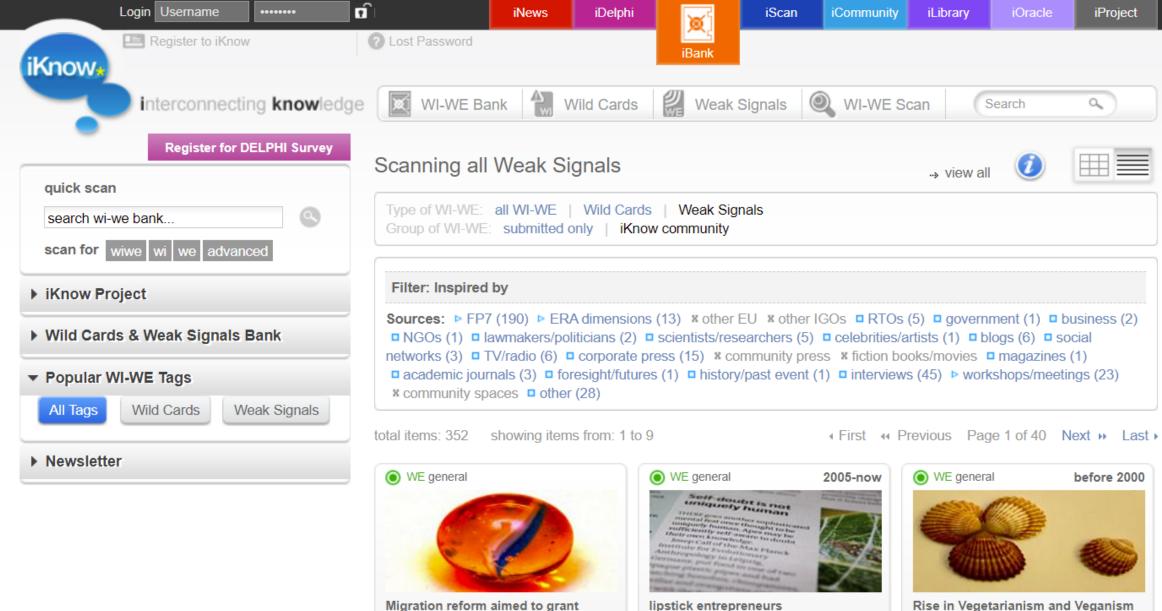
Weak signals bring messages from the future

Weak signals help us see the present more precisely and build better futures









the country

reform, Latin America



JRC TECHNICAL REPORTS

Weak signals in Science and Technologies 2019

Analysis and recommendations

Technologies at a very early stage of development that could impact the future









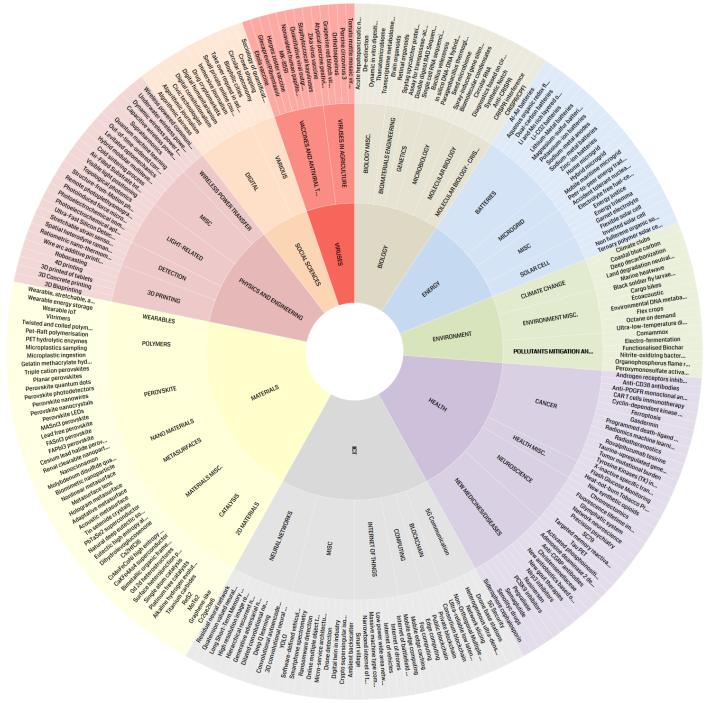














Available online at www.sciencedirect.com

ScienceDirect

Transportation Research Procedia 19 (2016) 18 – 32



International Scientific Conference on Mobility and Transport Transforming Urban Mobility, mobil.TUM 2016, 6-7 June 2016, Munich, Germany

From weak signals to mobility scenarios: A prospective study of France in 2050

Vincent Kaufmann, Emmanuel Ravalet *

Laboratory of Urban Sociology, EPFL, batiment BP, Station 16, CH-1015 Lausanne, Switzerland



See discussions, stats, and author profiles for this publication at: https://www.researchgate.net/publication/259993106

Future studies and weak signals: A critical survey

Article in Futures · January 2012

CITATIONS

READS

303

3 authors:



Riol Miller

United Nations Educational, Scientific and Cultural Organization

83 PUBLICATIONS 967 CITATIONS

SEE PROFILE



Ulrik Jørgensen

Aalborg University

46 PUBLICATIONS 810 CITATIONS

SEE PROFILE



Pierre Rossel

Coherent Streams, Switzerland

88 PUBLICATIONS 528 CITATIONS

SEE PROFILE



COVID-19

Weak Signals from Paris

On May 11th, after 55 days under some of the strictest COVID restrictions in Europe, French society began to crack its shutters. By the time ReD research partner Rayan Hindi conducted a week-long research sprint in Paris in mid-June, the city was pulsing again. Restaurants, cafés, and shops had been fully reopened, with only a subset requiring masks indoors. Public parks and the banks of the Seine were packed with Parisians eager to gather after months of restricted mobility and in-person socialization. Protesters took to the streets to echo racial justice protests in the US, and to demand better wages and conditions for France's essential healthcare workers. It was almost as if COVID had never happened.

...Almost. Paris now looks like a version of what an April piece in *The Economist* called a 90% economy: Much of pre-COVID activity has been resumed, but there are uncanny gaps — an absence of tourists, for example, meaning Paris is free for the first time in centuries from the gaze of foreigners. So how has Paris changed? What can we learn from this new Paris? And what might it tell us about how brands can serve its consumers in the months and years to come?



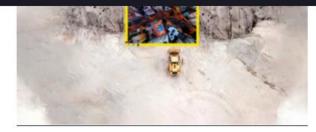
λ .



when certain milestones seem within sight, companies can undertake small pilots to assess viability and proof of concept. Ultimately, weak signals need to become part of every company's peripheral vision.

Here are four weak signals that could bring dramatic change and unlock significant new opportunities, thus earning their place on the radars of business and government leaders.

- 1. Chapter 1: Quantum computing
- 2. Chapter 2: Brain-machine interfaces
- 3. Chapter 3: Space commercialization
- 4. Chapter 4: Transportation drones



Beyond COVID-19: Will you define the new normal or watch it unfo...

Building a better world beyond COVID-19 requires leaders to imagine the unthinkab...

22 Jun 2020 | EYQ

Understanding

- · Foresight process as framework
- · Diversity of mindsets
- · Monitoring emerging trends
- Recognising strong signals
- Filtering out noise
- Re-framing

Weak Signals

- Avoiding paralysis by analysis
- · Avoiding precipitated action
- · Anonymous plus face-face interaction
- · Adaptive but ready decision-making

Acting upon

Fig. 1. Making the most of weak signals.

Key message:

- Weak Signals are part of a foresight process. When the organization has identified them, it needs to:
- (1) Try and understand what the signal may mean. This involves monitoring how it can evolve over time.
- (2) Act to minimize or maximize the possible negative or positive consequences/impacts.

