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Alliance for
Logistics Innovation
through Collaboration
in Europe

ECG Spring Congress

Challenges and (technological) trends in the logistics sector

Fernando Liesa
Secretary General, ALICE

Madrid, 25th May 2018



Activities performed partially in the frame of WINN, SETRIS & SENSE Projects. WINN, SETRIS & SENSE projects have received funding from the European Union's FP7 and Horizon 2020 research and innovation Programme under grant agreements No. 314743, No. 653739 and No. 769967

Why and what is ALICE?

Focus on Medium-Long term vision for logistics:

Trends, New Business models... → New Challenges and Opportunities

Define a Research & Innovation Strategy/agenda linked to Industry interest

→ Formal mandate of the European Commission in defining R&I Programs H2020 as *European Technology Platform**



Mapping and analysis progress: R&I projects, Industry initiatives, Start-ups → Facilitate access to knowledge generated

Create an open Network for Collaborative Logistics Innovation in Europe → Building knowledge and supporting innovation

* [What are the European Technology Platforms, what do they do and what is the European Commission Role](#)

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ALICE membership per type of organization

Type of Organization	Members	EU/International Associations
Shippers & Retail	      	   
Logistics Service Providers, Courier and Postal operators & Freight Forwarders	        	    
Ports, Hubs, Intermodal terminals & Transport Infrastructure	         	 
Vehicle Manufacturers & Logistics operations, handling (modular units)	   	
Information and Communication Technologies & Consultancy	                       	 
Regional & National Logistics Clusters & Associations	          	
Research and technology Centers	                     	 
European Technology Platforms / PPPs	    	
Member States and innovation Funding*	           	

* Involved in ALICE Mirror Group

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ALICE Cycle

New activities 2018

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Alliance for Logistics Innovation through Collaboration in Europe

Liaison Program with R&I projects

Star-ups & Industry



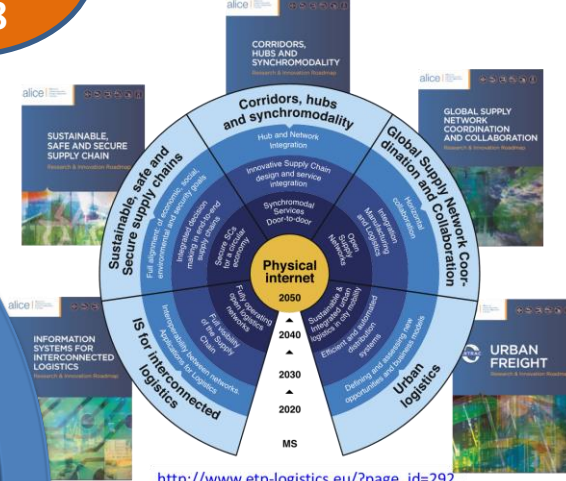
Roadmaps implementation Status

Roadmaps: Gaps identification and Recommendations

199 projects FP7/H2020

Funding Opportunities

H2020 & Member States Funding Programs



http://www.etp-logistics.eu/?page_id=292

ALICE Research and Innovation Roadmaps implementation Plan

Version: Draft 28.11.2016

* Note: This is a draft version of ALICE Research and Innovation Roadmap Implementation Plan. It includes the topics worked out in the last few months.

MG-6.3-2015 - Common communication and navigation platforms for pan-European logistics applications

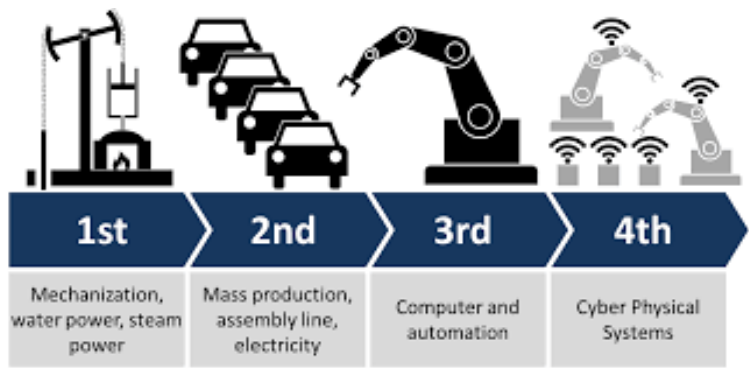
MG-5.1-2016 - Networked and efficient logistics clusters

SELiis

AEOLIX

Clusters 2.0

Industry 4.0, e-commerce, digitalization and decarbonization



Build Your Own

Pick a model.

★ VIEW FAVORITES

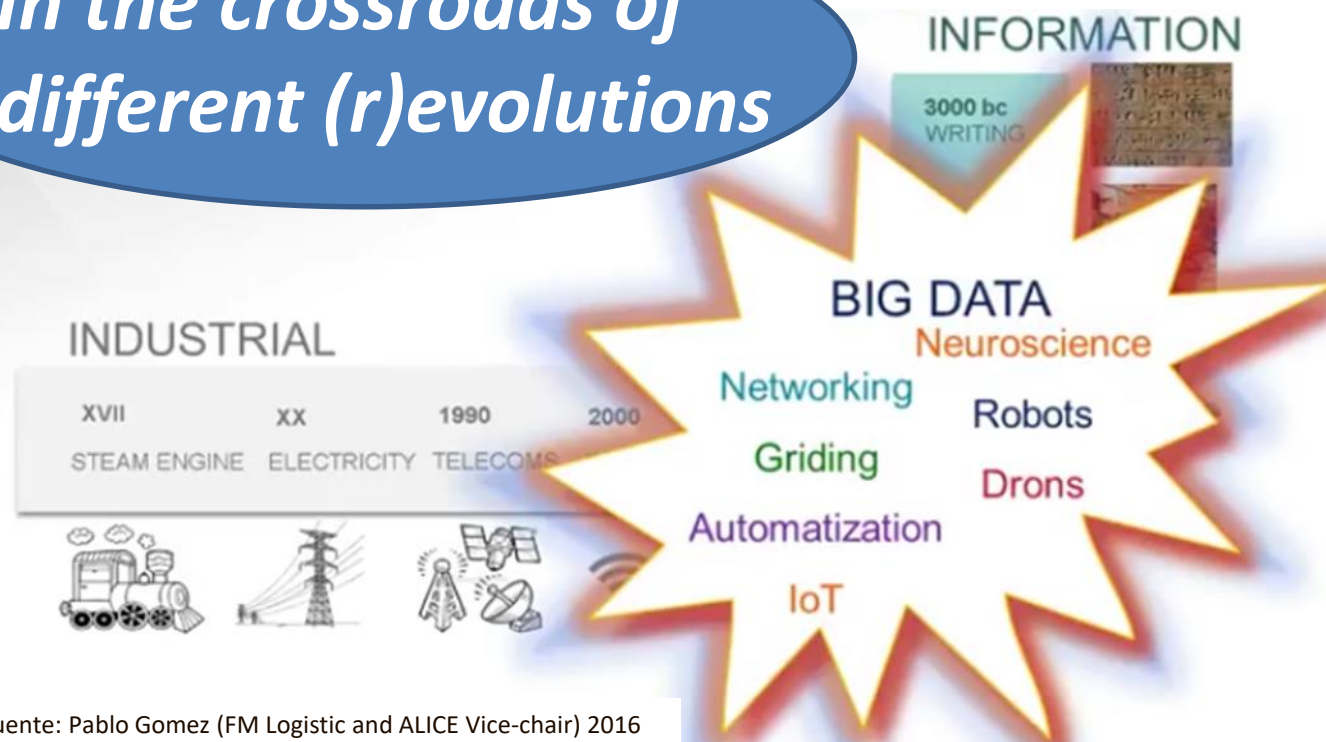
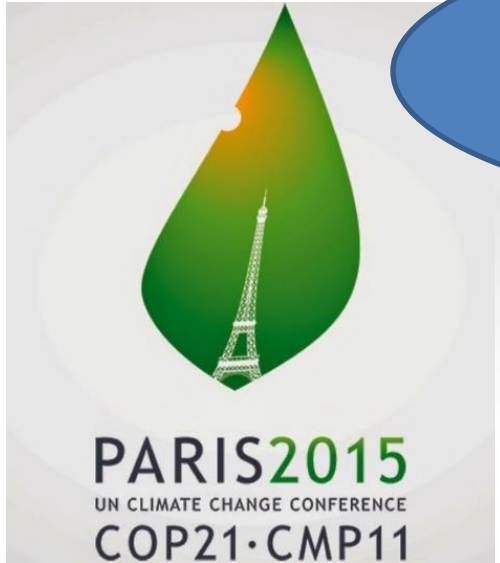
Jetta
From \$17,895

Passat
From \$22,440

CC
From \$34,475

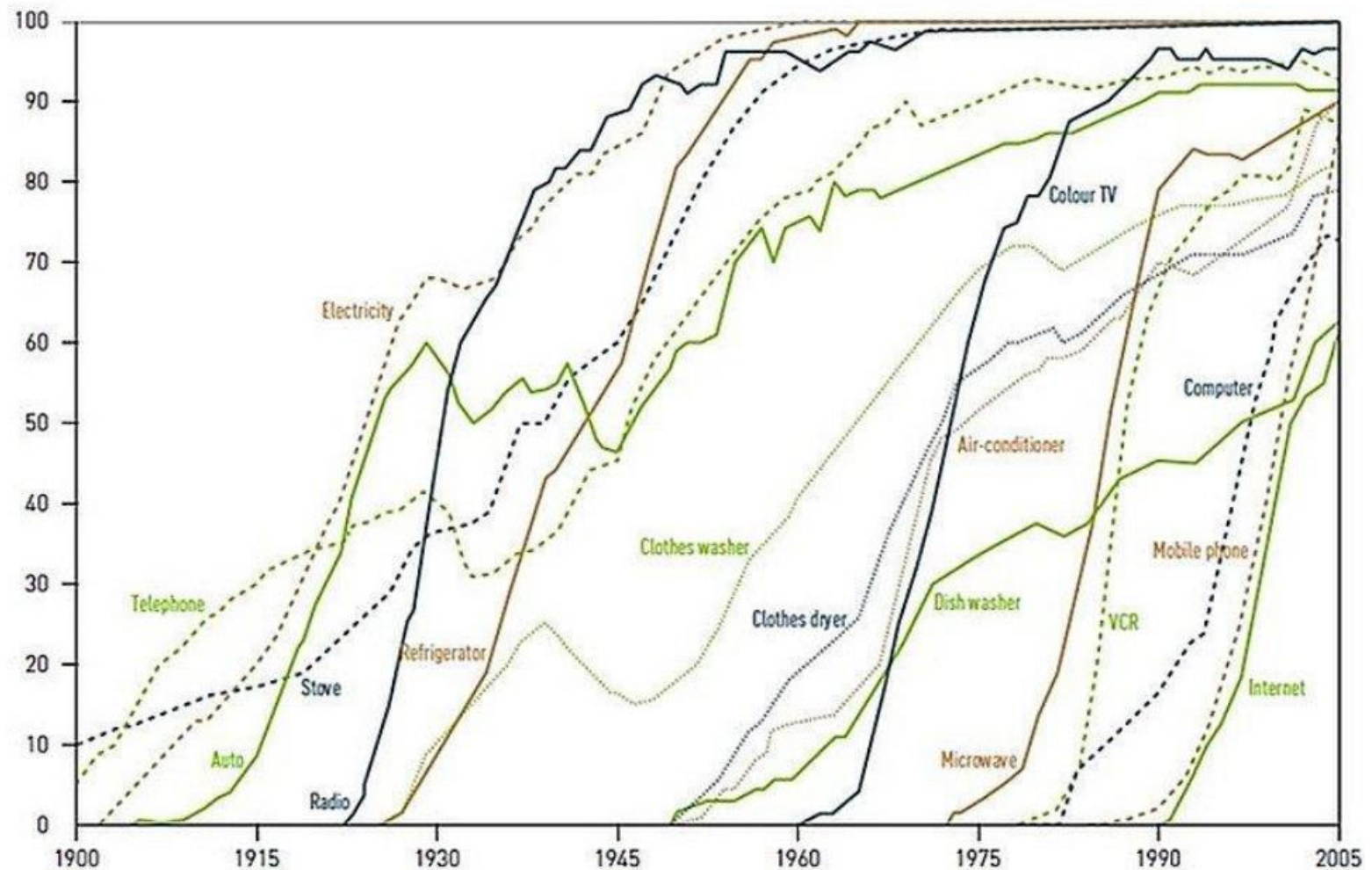
Beetle
From \$20,220

In the crossroads of different (r)evolutions



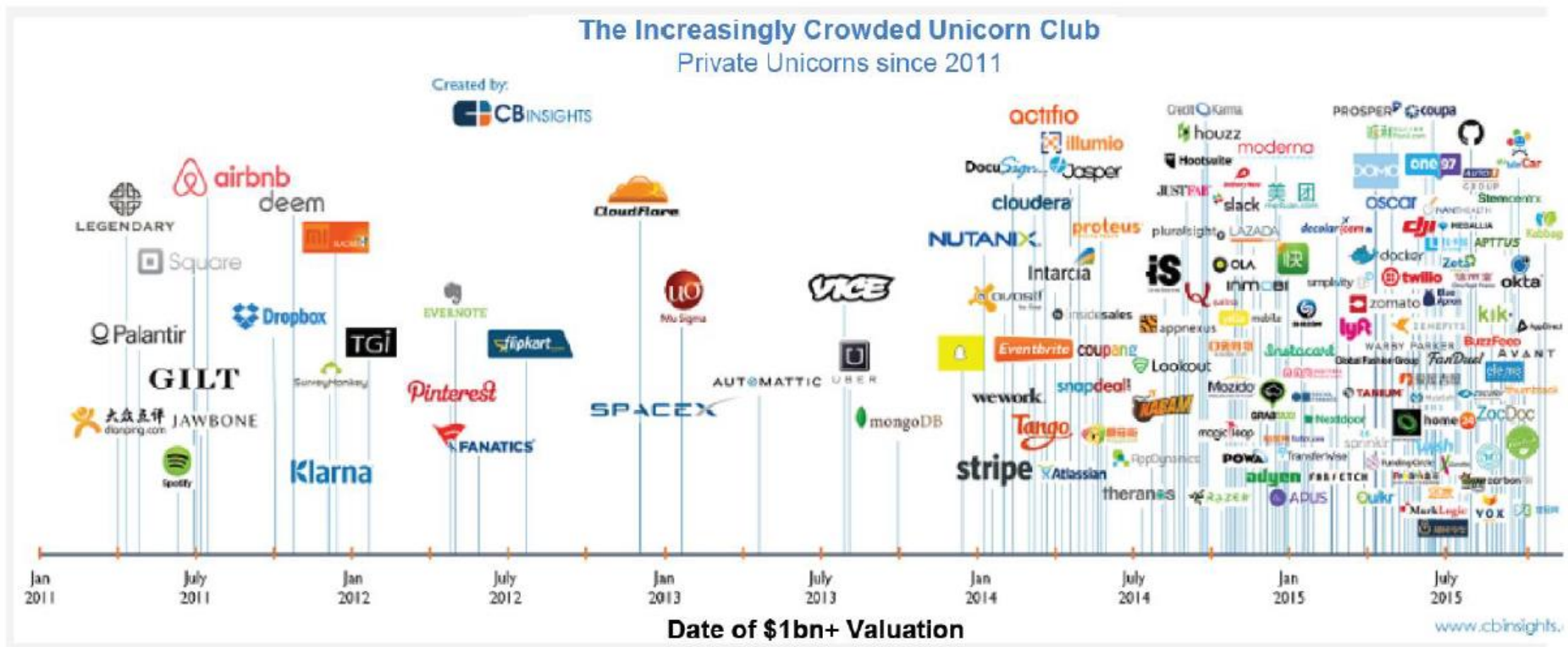
*Fuente: Pablo Gomez (FM Logistic and ALICE Vice-chair) 2016

The pace of Technological Change is Accelerating



Technology adoption curves for a range of modern innovations. Victorian Government

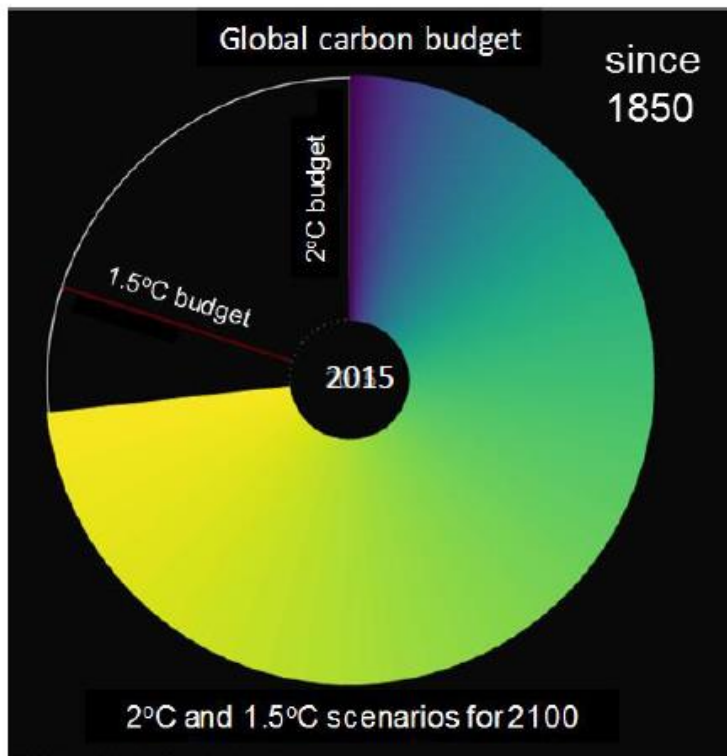
This can be seen in the explosion of “**Unicorn**”
startups focussed on digital technologies



UNFCC COP 21 Conference on Climate Change December 2015



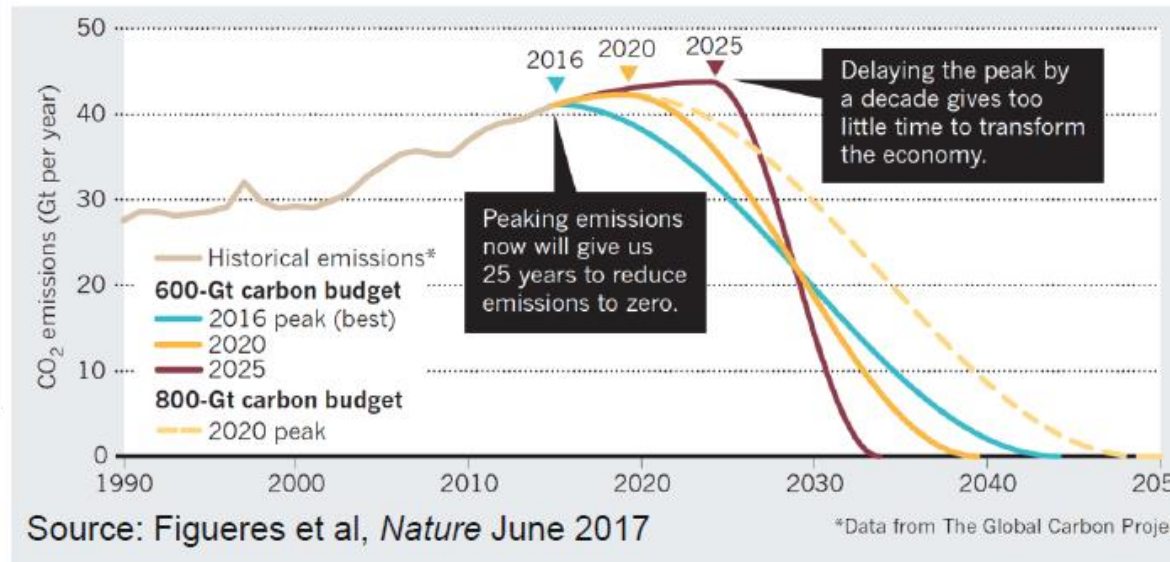
International agreement to keep average global temperature '*well below*' 2°C above pre-industrial times and '*endeavor to limit*' them to 1.5°C



At present rate of greenhouse gas emissions:
(to have 66% chance of staying within limit)

9 years to stay with 1.5°C limit
19 years to stay with 2.0°C limit

Source:
Anderson (2015)

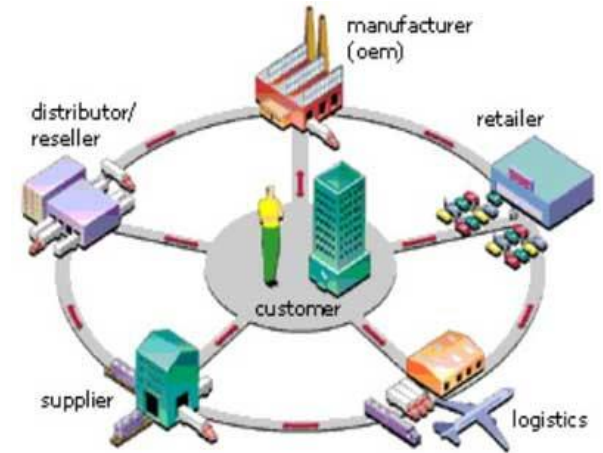


Source: Ed Hawkins
<http://www.climatechangenews.com/2016/07/27/spiral-tastic-climate-change-in-three-animations>

Source: Alan McKinnon, EC & ALICE Final Logistics Cloud Event: <http://collaborativeinnovationdays.eu/>

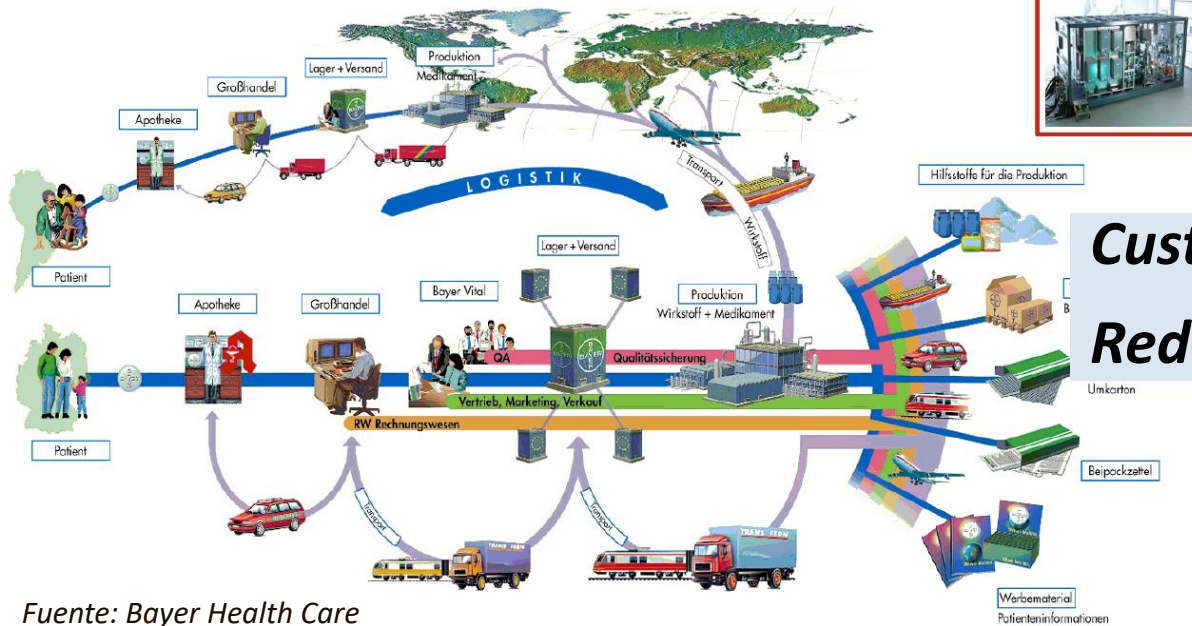
Industry 4.0 & e-commerce

***Even faster, more agile, responsive,
cost efficient and flexible SC!
Less intermediaries?***



Fuente:

<https://courses.lumenlearning.com/boundless-business/chapter/controlling-the-supply-chain/>



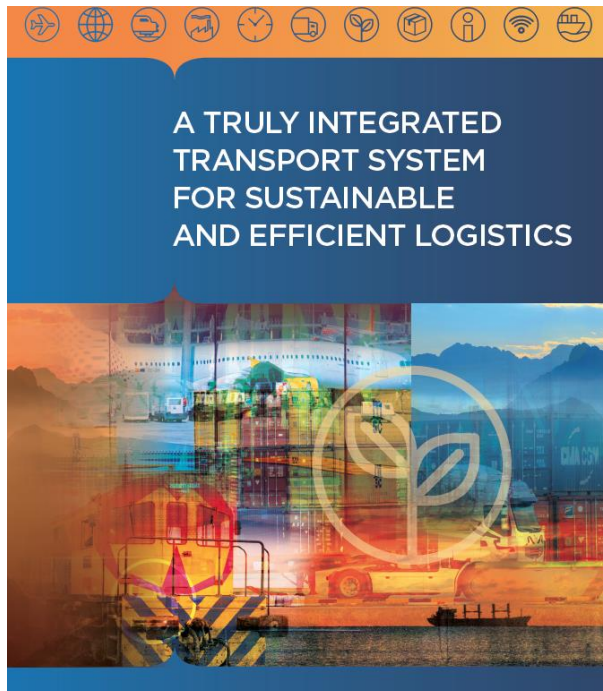
Fuente: Bayer Health Care

***Customer Centric SCs
Reduced time to consumer?***

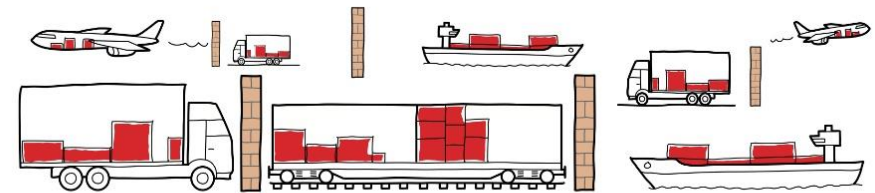


Truly Integrated Transport System:

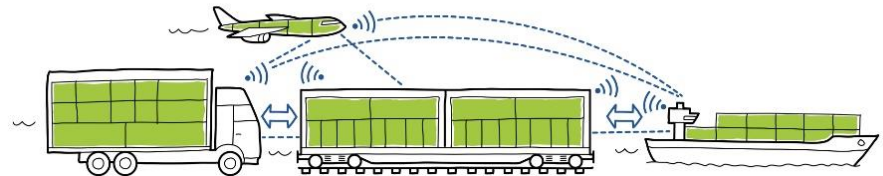
more efficient = more green



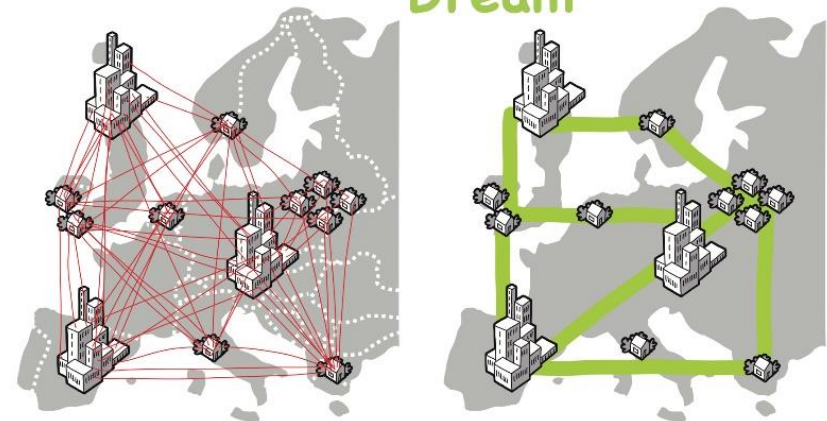
[Report: http://www.etp-logistics.eu/?p=1298](http://www.etp-logistics.eu/?p=1298)



Challenge



Dream



Investment in Research and Innovation on logistics: Alliance for Logistics Innovation through Collaboration in Europe

199 projects and initiatives (Mainly EU research) have been identified as potentially contributing to ALICE Research and Innovation Roadmaps implementation.

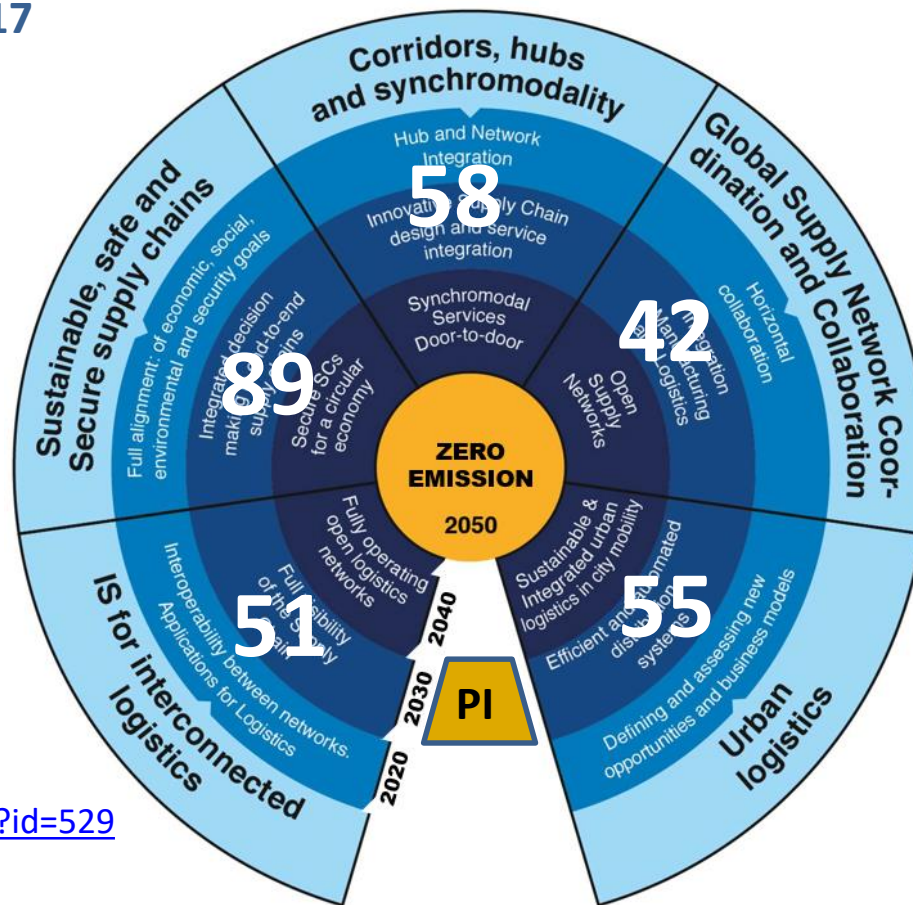
The **investment** in these initiatives altogether has been **1000 Million €** with a public funding of **780 Million €** in the period **2010-2017**

Impact will be higher if funded projects will respond to an overall strategy!!!

We need a strategy ahead of (more) Money!!!

And we miss more (Logistics) industry involvement in the process

Report: <http://intranet.etp-logistics.eu/mod/folder/view.php?id=529>



02 May 2018 | News

European Commission proposes €100B for research programme

Horizon Europe one of the few current EU budget lines to get increase in seven-year proposal

By Éanna Kelly



EU research commissioner Carlos Moedas is responsible for Horizon Europe

The European Commission on Wednesday outlined a €100 billion budget for its new research programme, running between 2021 and 2027.

Source: <https://sciencebusiness.net>



So... who knows how the future of Supply Chains will be?

The Best Way To Predict The Future Is To Create It!

Source: President Abraham Lincoln

Thank you!

www.etp-alice.eu

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