



Start-up innovation and research in ports and logistics.

AI and Deep Learning technologies

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Who are we?

- Spanish startup founded in 2019 as a **spin-off of the Computer Vision Center, Universitat Autònoma de Barcelona** with the support of the **Mobile World Capital**

Cutting edge AI technology based on Computer Vision and Deep Learning applied to

- Recognition** of objects in images and videos
- Identification, location and asset monitoring**
- Access control** in operational environments, ports and cargo sector

Institutional partners

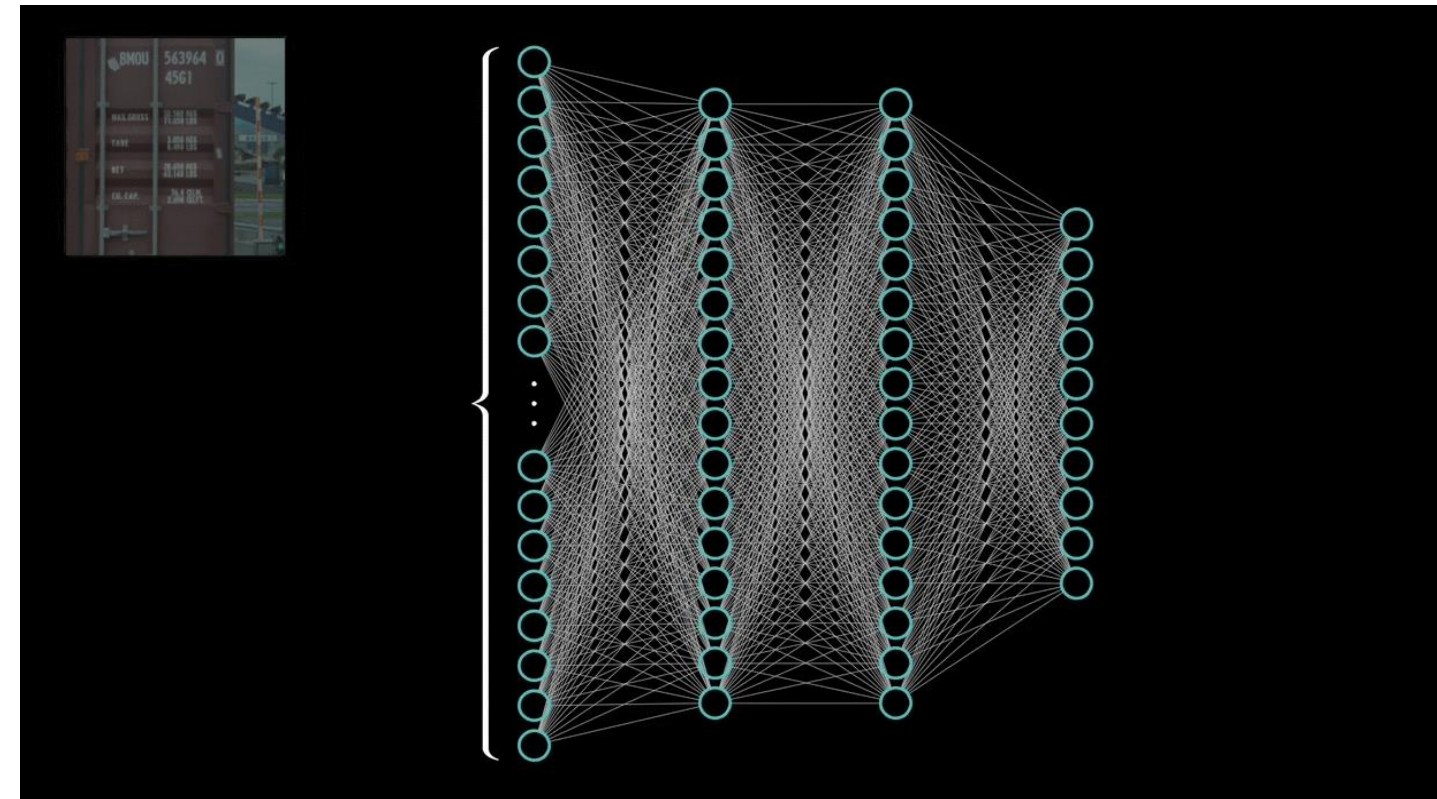


Clients & Use Cases



AI, Deep Learning and Computer Vision

Automate object detection, localization, classification, recognition in images through Deep Neural Network models



AI, Deep Learning and Computer Vision



BIC Containers



ILU Containers



Tankers



Vehicle Type



Seals



UIC Wagons



Licence Plates



Counting



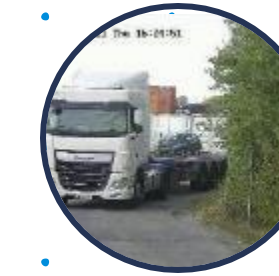
Wagon Separator



Dangerous goods



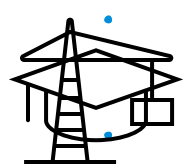
Documents



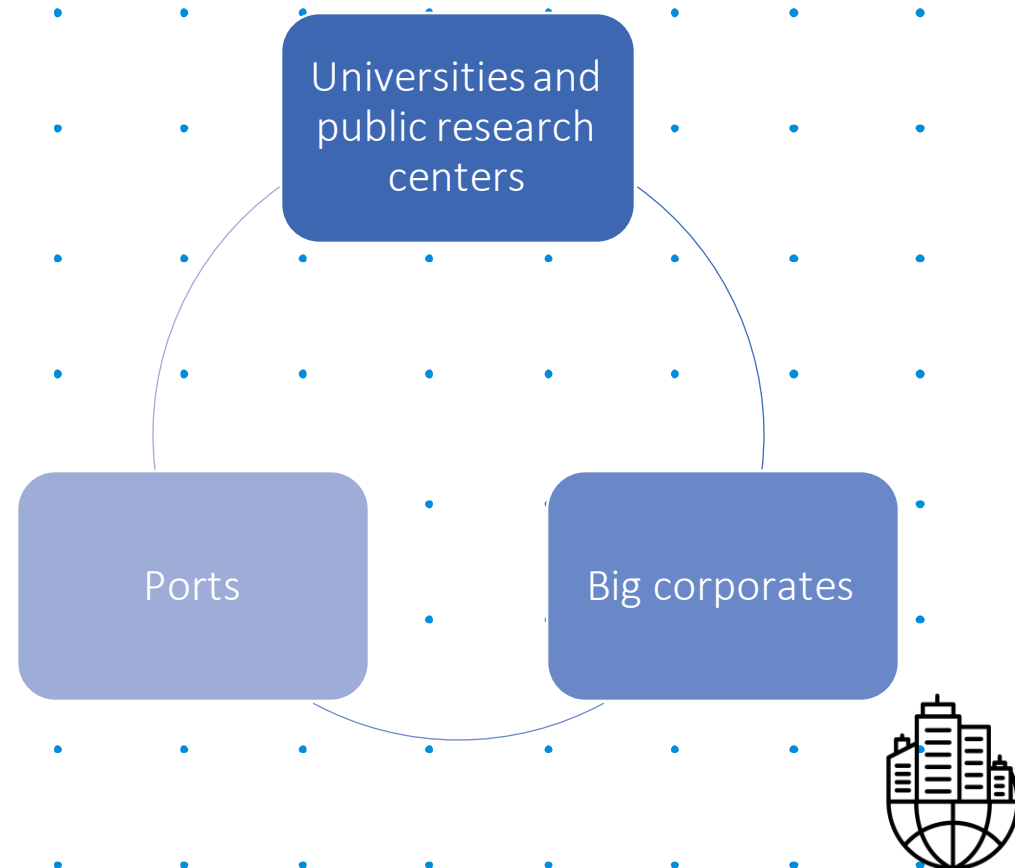
Load detection



Direction



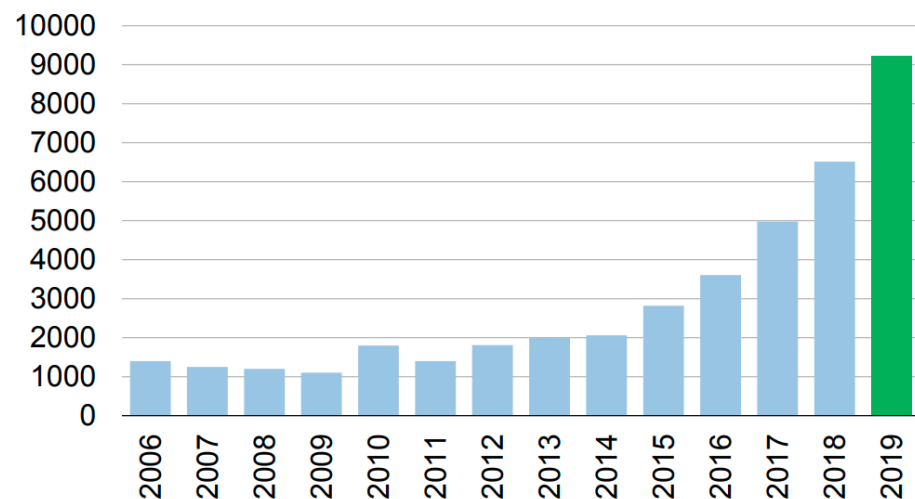
Innovation and Research Landscape



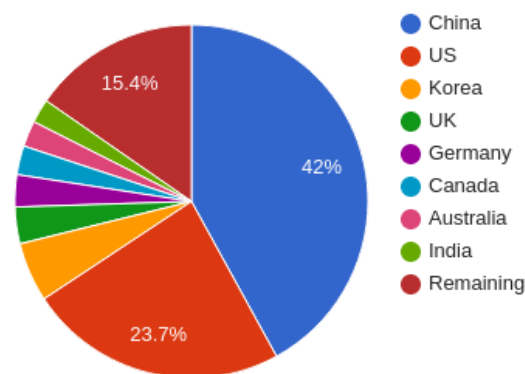
Universities and R&D public centers used to lead research and innovation (**academic knowledge**)

In the case of AI and DL, big tech corporates started to dominate the state of the art (**infrastructure, manpower and data**), but are focused on offering solutions and AI services to 7.9 billion people rather than custom solutions

The Boom of Deep Learning and change of paradigm. The case of CVPR

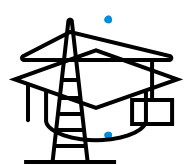


Authors by country

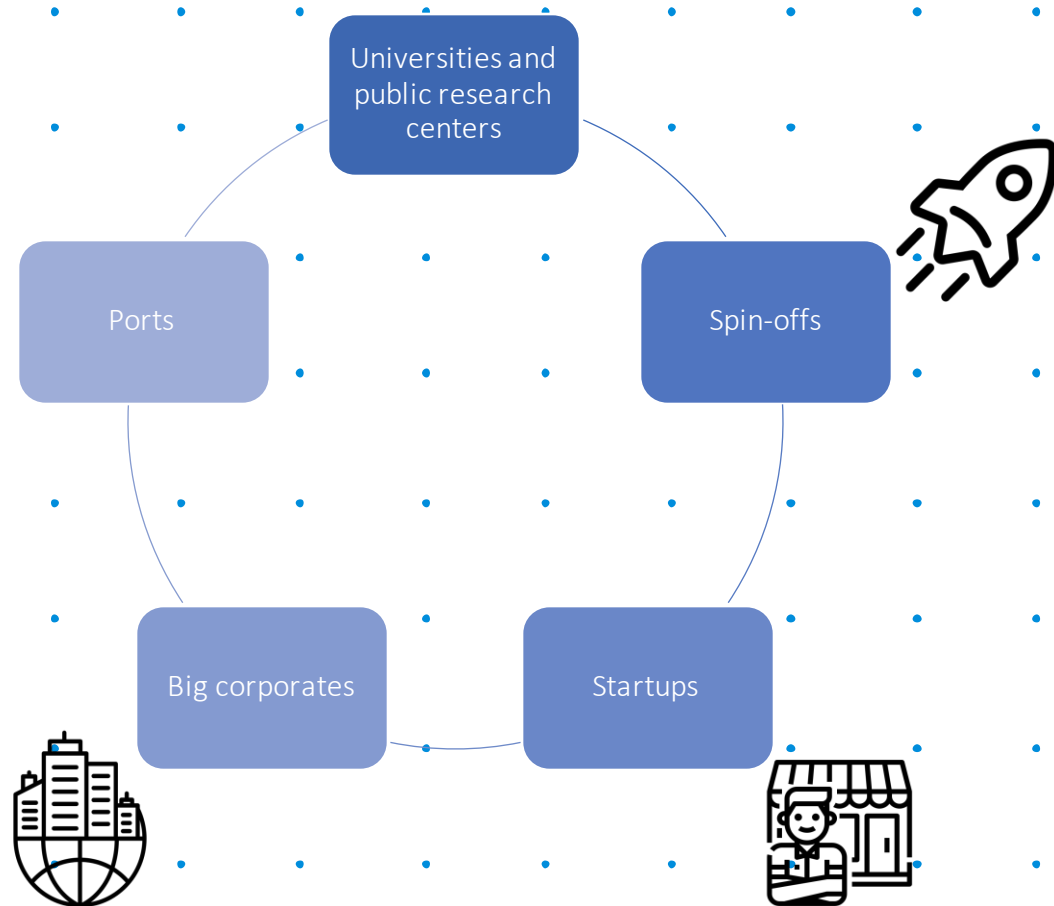


Change from being a venue 100% academic few years ago to now dominated by institutions such as

- Google
- Microsoft
- Amazon
- Facebook
- Adobe
- Huawei...



Innovation and Research Landscape



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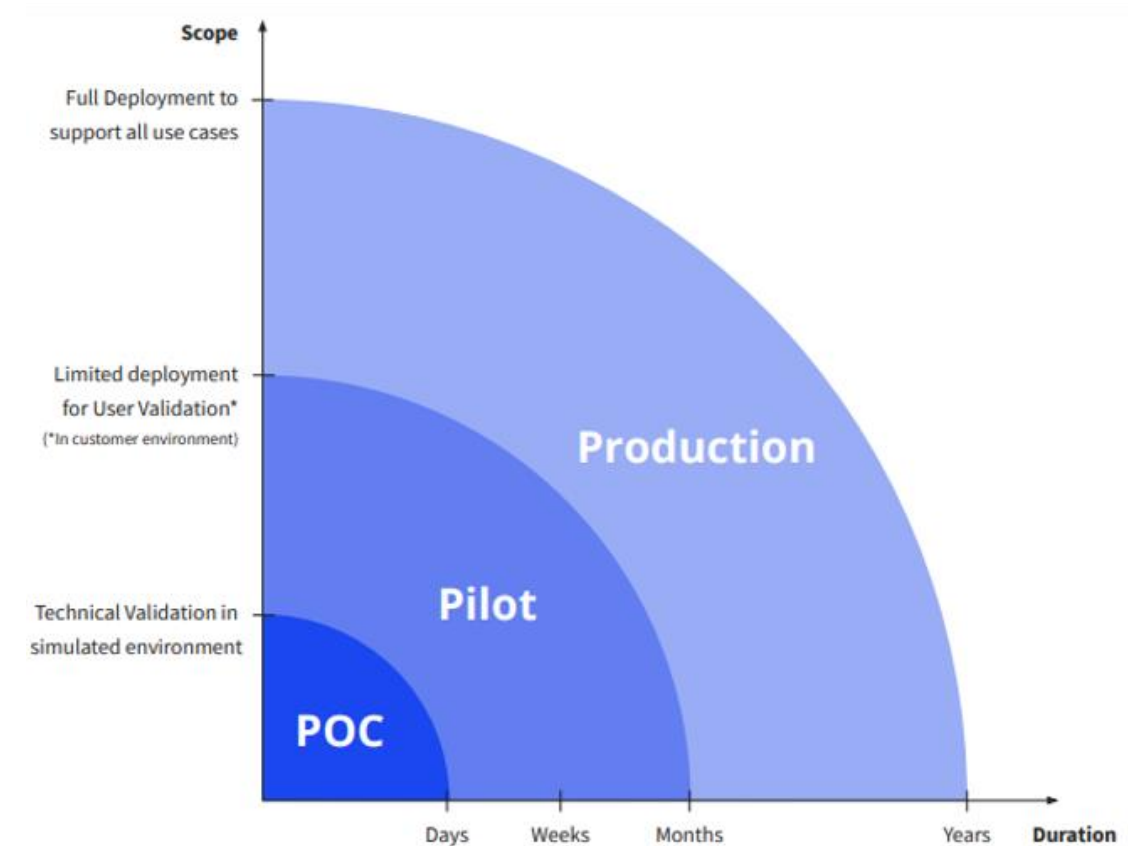
Startups, and specially, technical spinoffs, offer **flexibility, innovativeness, know-how**

Innovation through startup and ports collaborations

Open innovation mindset

Innovation with startups and ports will:

- Bring together questions and expertise
- Inspire ports on the possibilities of AI
- Offer world-class infrastructure and real environments to experiment. Work on real systems, learning by doing.
- Bring **ports** to state-of-the-art research and innovation, and **startup researchers** to ports



Open Innovation programs



• Innovation through startup and ports collaborations

Open innovation mindset

Win-win outcomes

- Startups get **knowledge and expertise** on real-scenarios and relevant problems. They find their niche
- Ports get **cutting-edge tech** adapted to their needs, flexible collaborations to find solutions
- Both strengthen their **brand image**

The screenshot displays a news article from AJOT (Associated Journal of Ocean Transportation) dated May 20, 2021. The article, titled "The Port of Barcelona and the startup AllRead use artificial intelligence to identify containers and wagons," reports on a pilot project by AllRead Machine Learning Technologies (MLT) at the Port of Barcelona. The article highlights the use of computer vision software for container identification.

Below the article, a screenshot of the AllRead software interface is shown. The interface features a "Now reading" section with a video feed of a port area. A blue line points from the video to a "CONTAINER BIC CODES" panel on the right. This panel lists several BIC codes, including MRKU 1053272 42G1, and shows a 96.83% accuracy rate.

AJOT 100
1919 - 2019

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The Port of Barcelona and the startup AllRead use artificial intelligence to identify containers and wagons

By: AJOT | May 20 2021 at 11:46 AM | Intermodal News | Ports & Terminals

AllRead Machine Learning Technologies (MLT), a startup specialized in computer vision software (Computer Vision), has successfully developed a pilot project at the Port of Barcelona to identify containers and wagons with its artificial intelligence-based technology.

allread Port de Barcelona Home Now reading Dashboard All Logs Configuration My Account

Now reading

MRKU 1053272 42G1

CONTAINER BIC CODES

| | |
|--------------------|-------------------|
| MRKU 105 3272 42G1 | MRKU 1053272 42G1 |
| | PONU 1608705 42G1 |
| | MRKU 0027896 42G1 |
| | MRKU 0051850 42G1 |
| | MRKU 0096032 42G1 |

96.83%



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