



OXYgenii

Innovation : How to Deliver on the Promise ?

HOW A 3 YEARS OLD DUTCH COMPANY
OVERSUBSCRIBED THE LARGEST SERIE B
FUNDING ROUND IN CHIPS INDUSTRY ?

Edito

Vitesse, agilité, rapidité d'itération qualifient parfaitement l'univers start-up.

Il agrège une communauté toujours en ébullition. Des chercheurs et des ingénieurs captivés et captivants. Des entrepreneurs qui cherchent à faire vivre leur création. Des investisseurs qui s'emploient à offrir le meilleur concours. Des juristes devenus des marathoniens-sprinters pour coller au mieux à une réglementation perpétuellement en mouvement. Des groupes d'experts et des sociétés savantes qui soutiennent, phosparent, partagent, impulsent.

C'est donc toute une communauté de **l'innovation** qui déploie son énergie.

Cette édition souhaite partager leurs réussites, leurs cheminements créatifs, les partenariats noués, leurs challenges, les marchés sur lesquels ils partent à l'aventure.

J'espère que vous prendrez plaisir à lire cette édition tout comme j'ai eu plaisir à l'élaborer.

Speed, agility and rapid iteration are the hallmarks of the start-up world.

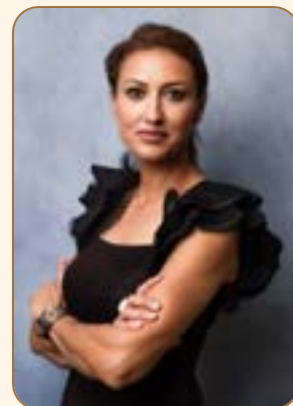
It brings together a community that's always buzzing. Captivated researchers and engineers. Entrepreneurs looking to bring their creations to life. Investors who strive to offer the best competition. Lawyers who have become marathon sprinters to keep up with ever-changing regulations. Groups of experts and learned societies that support, promote, share and encourage.

*It's a whole community of **innovators** who are deploying their energy.*

This edition aims to share their successes, their creative paths, the partnerships they have forged, their challenges and the markets they are venturing into.

*In other words, **How they Delivered on their Promise ?***

I hope you will enjoy reading this edition, just as much as I enjoyed writing it.



**Emmanuelle
SALIMAN**

About

HOW A 3 YEARS OLD DUTCH COMPANY OVERSUBSCRIBED THE LARGEST SERIE B FUNDING ROUND IN CHIPS INDUSTRY ?

FIRSTLY, TO MAKE THINGS SIMPLE, WITHOUT CHIPS NO DIGITAL PRODUCT (smartphones, computers, cars ...)

SECONDLY, TO UNDERSTAND THE MAGNITUDE OF THIS MARKET LET ME SHARE YOU FEW NUMBERS :

- 1 trillion microchips were manufactured around the world in 2020
- Demand for chips is expected to double by 2030
- The forecast for 2024 is +18,8% (630 Md\$) & for 2025 +13,8% (717 Md\$)

THIRDLY, EACH COUNTRY IS BANKING ON THIS exceptional AI-powered innovation measuring just a few millimeters in size:

\$2.3 trillion are expected in new investment in wafer fabrication between 2024–2032, knowing that international investments have multiplied by +280% between 2018 & 2023.

IT IS IN THIS CONTEXT THAT AXELERA AI SUCCESSFULLY SCALED UP.

“ITS TECHNOLOGIES COULD POTENTIALLY BE USED IN AUTOMOTIVE, DIGITAL HEALTHCARE, DRONES, INDUSTRY 4.0, RETAIL, ROBOTS AND SURVEILLANCE INDUSTRIES.”

The fact that AXELERA AI targeted a **WIDE RANGE OF BUSINESS SECTORS** explains that **A POOL OF INVESTORS DECIDED TO CO-INVEST** :

Samsung Catalyst Fund (fully owned by Samsung Electronics), CDP Venture Capital SGR (Italy), Fractionelera (NL), Innovation Industries (NL), Innovation Industries Strategic Partners Fund, Invest-NL Deep Tech Fund, Verve Ventures (Switzerland) & the European Innovation Council Fund invested \$68 millions in Axelera AI's Series B funding.



*Bram VERHOEF, AXELERA AI Co-Founder
in MEDICA Trade Fair (Düsseldorf, Nov. 24)*

**€68
millions
fundraising**

AIPU



THIS FUNDRAISING WILL BE USED TO GROW AI SOLUTIONS based on its proprietary **AIPU technology (AI Processing Unit)**. The claim of AXELERA AI is that this artificial intelligence accelerator will **offer energy-saving and more and longer efficient use**. And their new AIPU is on the way !

Definitively, **THE NAME OF THIS COMPANY FITS COMPLETELY WITH ITS FLIGHT**. After take off, in just 3 years, AXELERA AI hired 200 employees including 60 PhD with more than 40 000 citations.

AXELERA AI HAS BENEFITED FROM THE EUROPEAN INNOVATION COUNCIL PROGRAMME «EIC ACCELERATOR». IT SUPPORTS GROWTH WHEN THE RISK IS TOO HIGH FOR PRIVATE INVESTORS.



*Andreas LYMBERIS,
Head of Sector
EIC Challenge-based
Accelerator*

EIC FUND
**€1.4
billion**
FOR 2025

EUROPEAN INNOVATION COUNCIL (EIC) is indeed a key actor to support strategic approaches and **OFFER COMPETITIVENESS to UE START-UPS** such as deploying the results of scientific research, supporting risk-taking and growth for promising companies, fostering the emergence of unicorns or supporting the emergence of new disruptive technologies.

During **MEDICA Trade Fair that held in Düsseldorf last Novembre**, EIC has shown financing possibilities and presented the portfolio of tools it deployed to support star-ups. The **Head of Sector Andreas LYMBERIS & speakers invited by EIC** succeeded in giving substance to the concept of financing.

2 sessions were particularly appreciated by potential entrepreneurs: How the programme supports the ecosystem from Deep Tech to Business Acceleration & Funding opportunities at EIC.



SO, IN TARGETTING
DIGITAL HEALTHCARE
AXELERA IS ADDING A
STRING TO ITS BOW !

IT WILL CONTRIBUTE TO
CANCER DIAGNOSIS
& TREATMENT ACCURACY

Localize lesions, monitor tumor activity, assess extension or check the effectiveness of treatments is all what imaging allows.

That's why radiology, nuclear medicine and surgery departments can therefore only **be delighted to be offered imaging whose precision will be of immediate benefit to the patient.**

However, **hospitals' budgetary constraints still need to be taken into account.** This is a key factor in deploying such an innovative solution.

IT WILL MEET
PUBLIC HEALTH OBJECTIVES

To illustrate this, we can cite a **French example**, with the **"Ten-year cancer strategy plan" for 2021-2030:**

- ✓ **Reduce the number of preventable cancers by 60,000 a year by 2040**
- ✓ **Carry out one million more screening tests per year by 2025 (today, around 9 million screening tests are carried out each year).**

What place will take Axelera in the future? I would simply say that this is an adventure that we will have to follow very closely.

AKNOWLEDGEMENTS

« The Faces Behind Innovation »

Dear EIC Team,

I'd like to thank you for your so kindly welcome at MEDICA.

A discussion as we made our way up from Hall 9 to Hall 14. MEDICA, a city within a city



Andreas LYMBERIS

Head of Sector, EIC
Challenge-based
Accelerator



Gisela SANTOS

EIC Project Advisor



Matteo DE LUCA

Government and
Public Sector
Consultant



Bram-Ernst VERHOEF

AXELERA AI

Co-Founder & Director
of Customer Solutions
and Engineering



Lukas ADT

Manager of Sales EMEA



Gentlemen,

I'd like to thank you for taking the time to play the game of the questioning, even though this blog was just getting off the ground.

I look forward to following the Axelera development.