

From LAB to FAB: Histórias da Inovação

Encontro Ciência'22

17 Maio 2022

*www.almascience.
pt*

The Smart Paper Ecosystem



Smart Packaging & IOT

Connected Products | Environmental | Freshness | Security | Health
(Point-of-need PON)

Paper Electronics

Printable & Low-cost | Hybrid devices Digital Paper | Edge Computing

Smart Cellulose based Materials

Hydrogels | Anti-Bacterial | Medical Applications | Thermal Isolation | Energy Harvesting

Sustainable Tech

Reduce Electronic Waste | Support sustainable Innovation and Tech

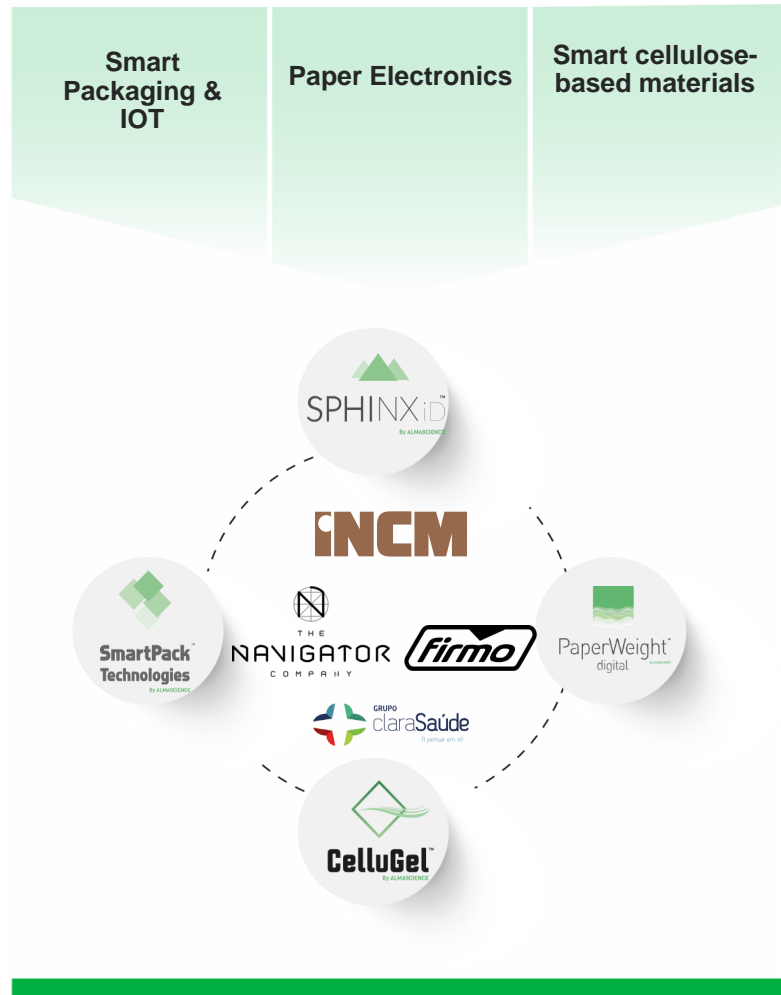


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Background Technologies

Translational Development



Applications

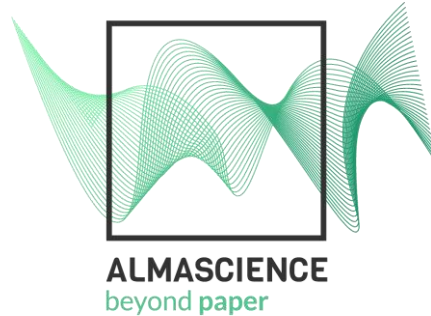
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- Background Knowledge and IP;
 - In-kind funding;
 - Disruptive technologies
- ↔
- Challenges for new disruptive technologies
 - IP commercial exploitation opportunities



- Funding;
 - **Business driven challenges;**
 - Showcase opportunities
- ↔
- One stop shop for the co-development of innovations related, namely scale up capabilities



CAGR of 8,3%
(2021-2026)
€2,5 billion
(2021)



CAGR of 5%
(2020-2026)
€3,0 billion
(2020)

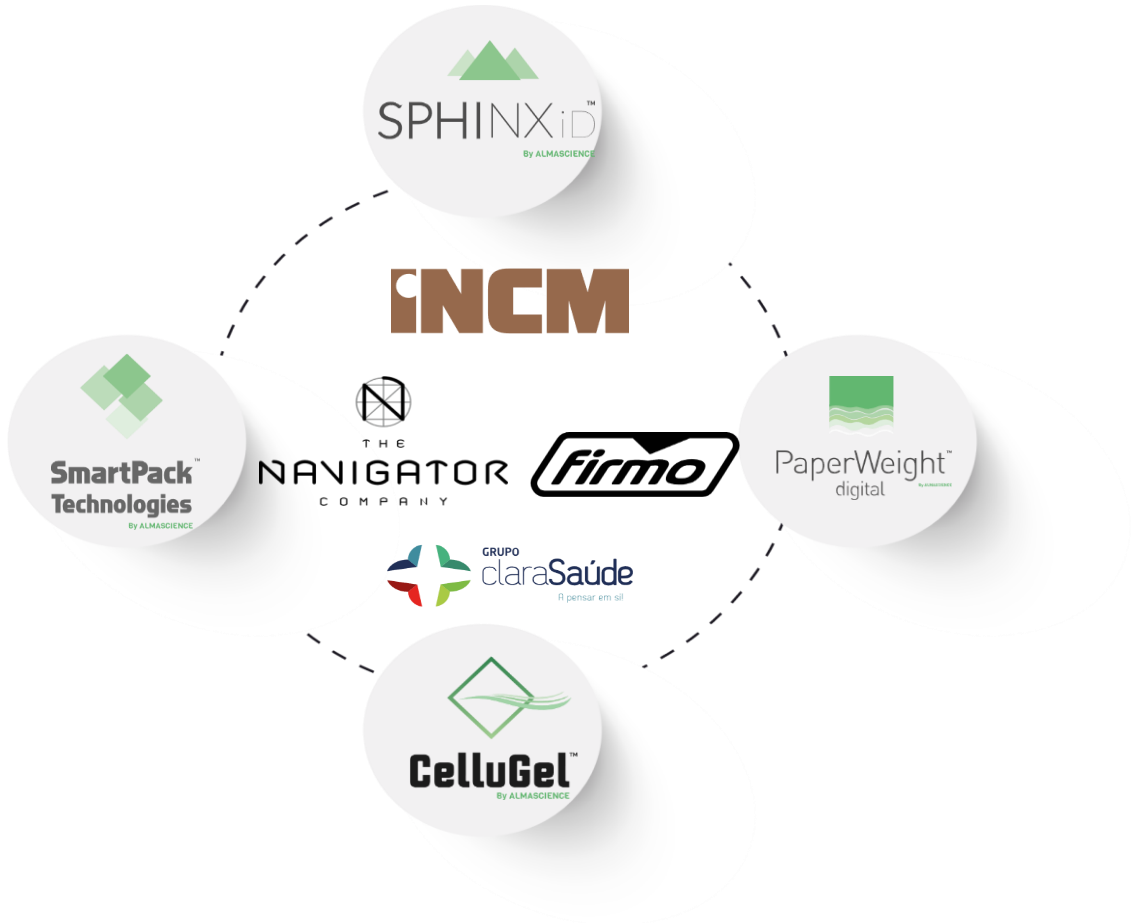


CAGR of 7,8%
(2020-2025)
€13,9 billion
(2020)

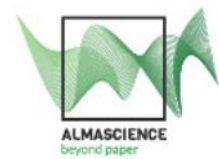


CAGR of 11,4%
(2020-2025)
€29,5 billion
(2020)

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Protection of Intellectual Property Rights is essential to the success of the defined strategy

Patents

Depending on the

- Technical results
- Revision of the Patentability Potential
- Market Analysis
- Other factors

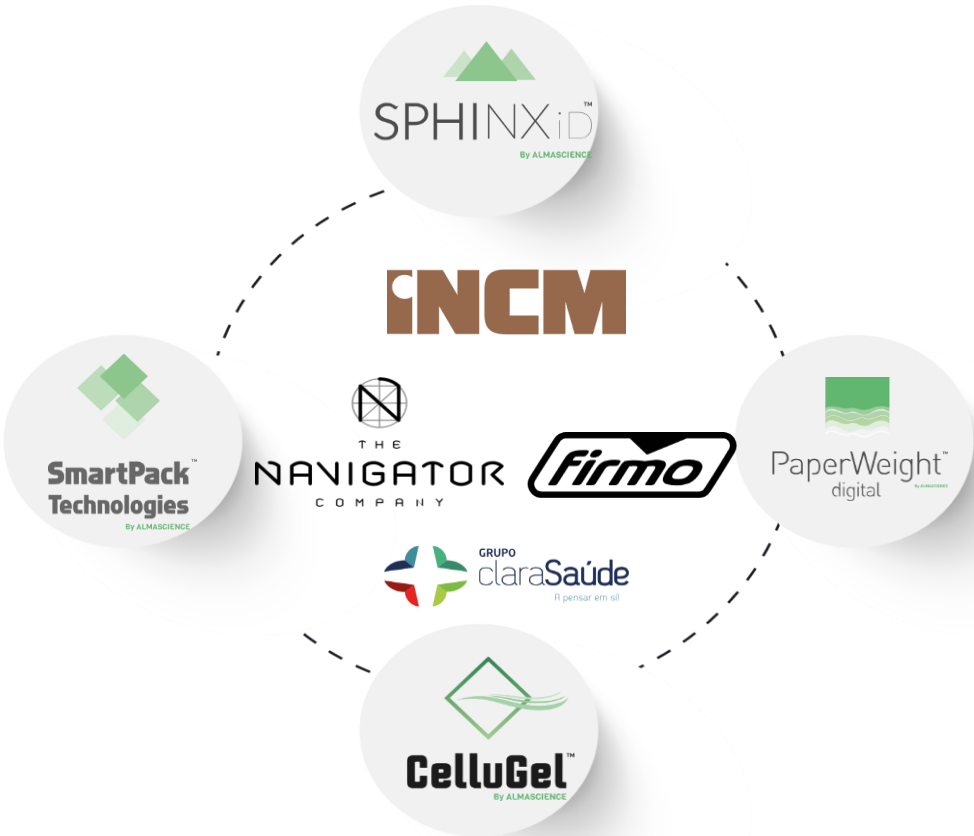
Protect the Technology with different embodiments (products/applications) (eg. Paperweight digital)

Boarder scope

Protect the products/applications per se

Narrower/ Specific scope

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Applications

A vertical list of application logos. On the left side, THE NAVIGATOR COMPANY logo is oriented vertically. On the right side, the logos are stacked vertically: IKEA, INCM, FIRMOfirmo, SECRETARIA-GERAL DA PRESIDENCIA DA REPUBLICA, SUPER BOCK GROUP, GRUPO claraSaúde, ZØR, sensei, and NOS.

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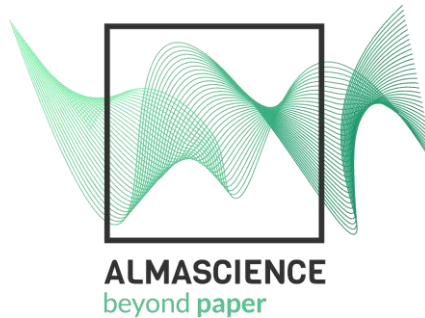
R&D associates

- Background Knowledge and IP;
- In-kind funding;
- Disruptive technologies



- Challenges for new disruptive technologies
- IP commercial exploitation opportunities

- Networking;
- Business driven challenges;
- Showcase opportunities;
- Best practices



- Funding;
- Business driven challenges;
- Showcase opportunities



- One stop shop for the co-development of innovations related, namely scale up capabilities

Industry associates

Partners / clients

Business and technical associations

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- Complementarity

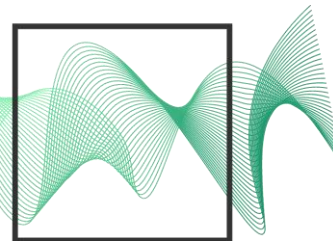


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- Challenges for new disruptive technologies
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- Networking;
- Business driven challenges;
- Showcase opportunities;
- Best practices



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beyond paper



- Differential competences and capabilities;
- Networking

- Funding;
- Business driven challenges;
- Showcase opportunities



- One stop shop for the co-development of innovations related, namely scale up capabilities



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R&D Partners

- CEINTI
- INL
- UGA Université Grenoble Alpes
- ecolab CIRCULAR ECONOMY
- food for sustainability

- Opportunities to engage with local forces, from schools and students to innovative start-ups
- Privileged access to infra-structures

Regional connection

- madan parque de ciencia
- INOVARIA

Institucional associate

- CMA CÂMARA MUNICIPAL DE ALMADA

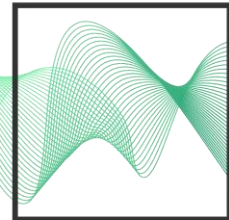
R&D associates

- NOVA UNIVERSIDADE NOVA DE LISBOA
- NOVA idFCT Associação para a Investigação e Desenvolvimento da FCT
- RAIZ Forest and Paper Research Institute
- Fraunhofer PORTUGAL

- Background Knowledge and IP;
- In-kind funding;
- Disruptive technologies

- Challenges for new disruptive technologies
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- Networking;
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- Best practices



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beyond paper

- Differential competences and capabilities;
- Networking

Business and technical and associations

- TECNICELPA
- oe-a
- APIA Active & Intelligent Packaging Industry Association
- EARMA EUROPEAN ASSOCIATION OF RESEARCH MANAGERS AND ADMINISTRATORS
- PORTUGAL FOODS Atlantic meets Mediterranean
- Health Cluster Portugal

- Scientific literacy resources;
- Services to complement incubator approach

- Funding;
- Business driven challenges;
- Showcase opportunities

- One stop shop for the co-development of innovations related, namely scale up capabilities

Industry associates

- THE NAVIGATOR COMPANY
- INCM IMPRENSA NACIONAL CASA DA MOEDA
- claraSaúde
- Firma

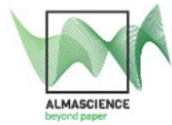
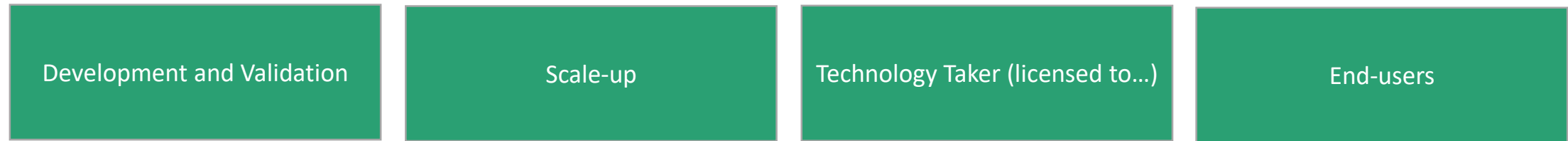
Partners / clients

- SUPER BOCK GROUP
- ZOR
- sensei
- ...

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We welcome more partners to the ecosystem!



Missing partners

+
Industrial partner in the field of fine chemistry

Industrial partner in the field of fine chemistry and/or biotechnology and advanced materials

Thank you!



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