Knowledge valorisation and tech transfer

Experiences from 20 years of Business Development

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Golden Autumn Exhibition - October 9th 2020.

Wageningen's domain: Food and Living Environment







- Sustainable production and food processing
- Animal feed and biobased products
- International food chains and networks
- Food security and food health aspects







- Food and Living environment
- Lifestyle
- Perceptions
- Governance
- Market and chains
- Social innovations

- Nature and landscape
- Land use
- Water, sea and natural resource management
- Biodiversity

Food, feed and biobased production

Natural resources and Living environment



Wageningen University & Wageningen Research

Wageningen University

- 10.000 students (>100 countries)
- >1,900 PhD candidates
- 2,500 faculty and staff



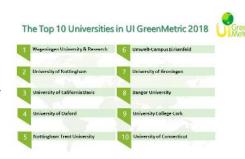


Wageningen Research

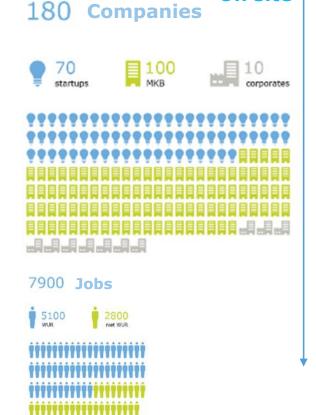
- 20 market oriented research institutes
- 2,410 staff
- Contract Research Revenue 2016: 635 M EUR
- Global business with leading companies

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WUR ranking in QS World University Rankings 2016-2017 "Agriculture and Forestry"







On site





Wageningen University & Wageningen Research

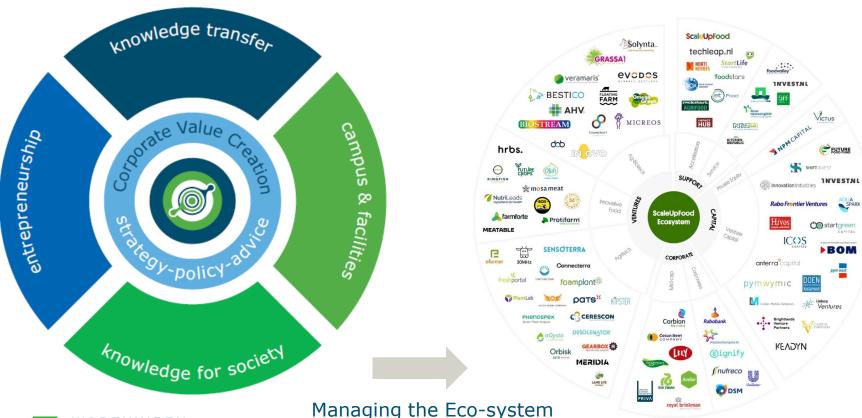


Unique combination of a world leading university and market-oriented research institutes. And corporates, spin off's, start ups, NGO's, regional development, .. on a modern campus





CVC – corporate value creation WUR

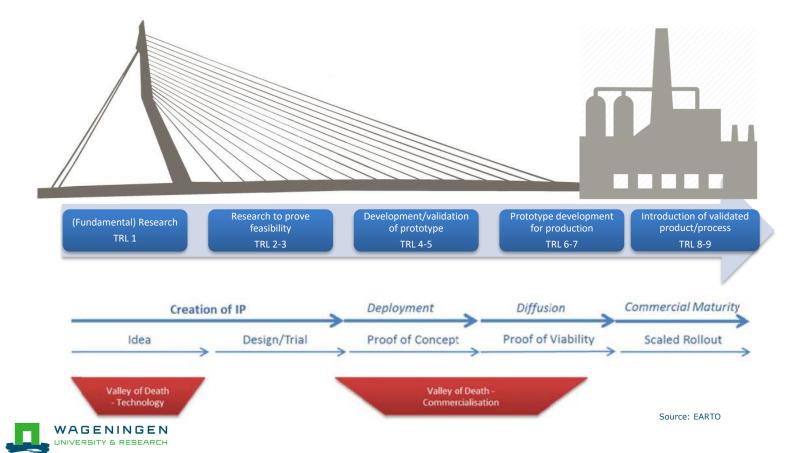




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Position of WUR in the innovation process





First: Which scenarios for valorisation of IP/knowledge/know how?

R&D project(s) ?



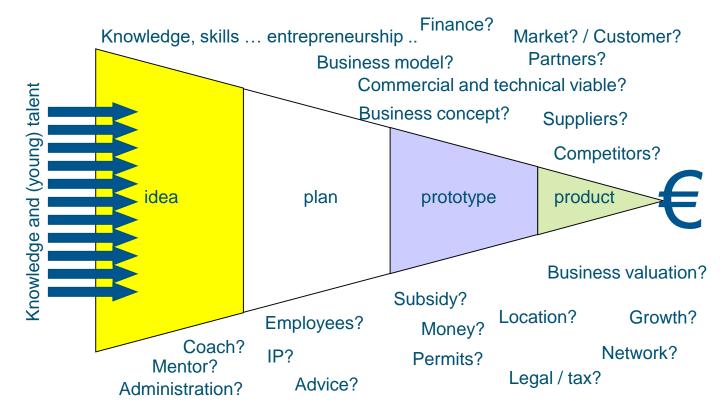
■ Sale ?

Spin Off ?





What to consider starting spin off's





7 steps towards a spin-off company

stage gate guidelines for entrepreneurial WUR personnel (including PhD students)

Complete and submit an Invention Disclosure Form (IDF) or a Value Creation Form (VCF)

lead: prospective entrepreneur

- Submit the form to CVC and your SG's contact.
- Discuss with CVC and/or Business Developer and WU-Chair/Business Unit Manager.

- Summarise your spin-off proposal in one A4 and submit it to the Managing Director SG for approval.
- Inform the Director CVC.

- A Value Creation Assessment team (VCAT) is set up by the Director CVC and the Managing Director SG.
- VCAT assesses and supports the (joint) development of the spin-off proposal and the business plan.

- VCAT & entrepreneur submit spin-off proposal and business plan to the Managing Director SG and CVC.
- CVC submits an advice to the Managing Director SG.

- Managing Director SG decides on term sheet, role of employee & conflicts of interest.
- Executive Board decides on full transfer or exclusivity of IPr and/or equity participation in the spin-off (on proposal of Managing Director SG and Director CVC).

The arrangements as agreed on in the approved spin-off proposal are formalised by WUR and the spin-off company in formation (final agreements)

Company formation at the Chamber of Commerce.

Request feasibility assessment: submit A4 concept-plan to the Managing Director SG for

lead: prospective entrepreneur

Assess and elaborate the spin-off proposal; elaborate the business plan

lead: VCAT, prospective entrepreneur

Submit the spin-off proposal and the business plan to the Managing Director SG for assessment

lead: VCAT, prospective entrepreneur, CVC

Decide on the knowledge transfer to spin-off

lead: Managing Director SG & Executive Board

Formalise arrangements with WUR

lead: Director CVC

In the case of a potential spin-off company based on a new idea/invention that is not vet protected (by a patent, plant breeding rights, etc.), use the confidential IDF.

In the case of a potential spin-off company based on protected or public WUR-knowledge, use the confidential VCF.

Forms are available on intranet.

Corporate Value Creation (CVC): valuecreation@wur.nl

The VCAT consists of representatives of:

- CVC
- Business Development SG
- SG/Corporate legal
- SG/Corporate finance
- External advisor(s) (optional)

VCAT and prospective entrepreneur elaborate the spin-off proposal, including (draft):

- Term sheet: IP/knowledge transfer arrangements with WUR
- Identification & mitigation conflicts of interest
- Arrangements on access and use of WUR assets (optional)
- Shareholder arrangements (optional)

The prospective entrepreneur elaborates and provides:

- Draft business plan
- Organisational structure (Management Team)
- Letter of endorsement (Chair Group/Business Unit)

The respective WUR departments advise Director CVC:

- IP licencing and contractual agreements (BD SG & SG/Corporate Legal)
- Agreement on avoidance of conflicts of interest (SG Legal)
- Agreement on access and use of WUR assets (BD SG)
- WUR's equitable interest, articles of association and role in the spinoff company (Corporate Legal)

Agreements are to be signed by the Executive Board.

AGAINH NEW ET THE Spin-off company

entrepreneur/founders

The potential ...it is a shift: growth in VC funding & corp.venturing

\$20.8B

Upstream + Downstream

Annual Financings | 2012-2019

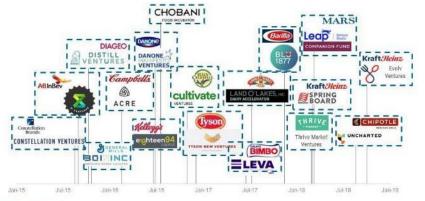
Funding to agrifood tech startups dipped nearly 5% year-over-year to 2019 on the back of a decline in the rate of funding to food delivery consumer apps. However, as more data is made public for 2019, the 2018 and 2019 funding volumes may soon look similar.



YEAR IN REVIEW

CPG leaders launch startup investment funds

Timeline of venture fund and incubator launches by announcement date; excludes incubator partnerships



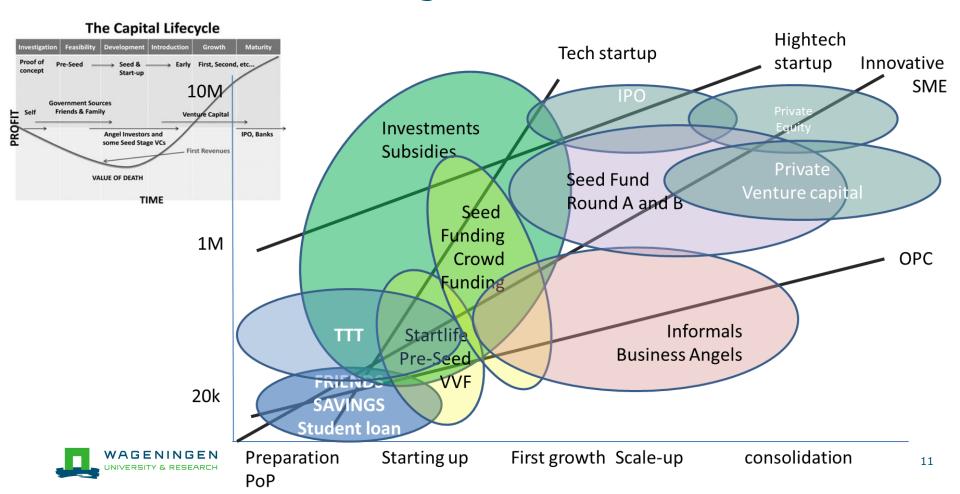
CBINSIGHTS



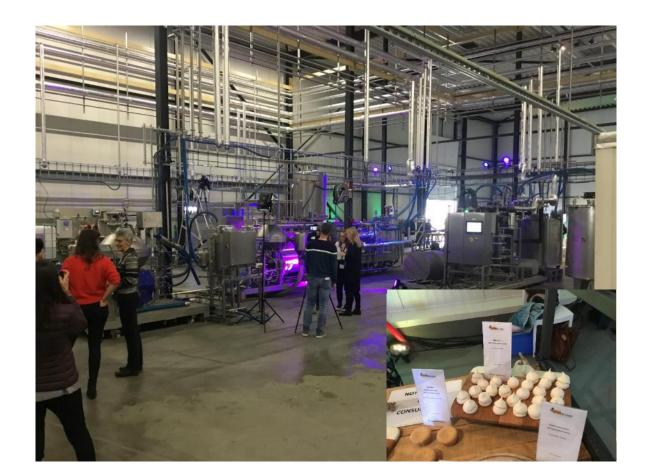
Sources: Agfunder AgriFoodTech Funding report: year 2019

CB Insights.com

Finance - Never enough?

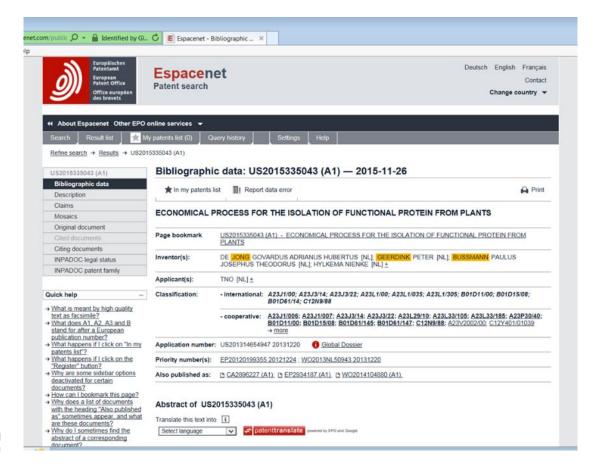


Example of funding: Green Protein case





1. Patent application





2. Project funding











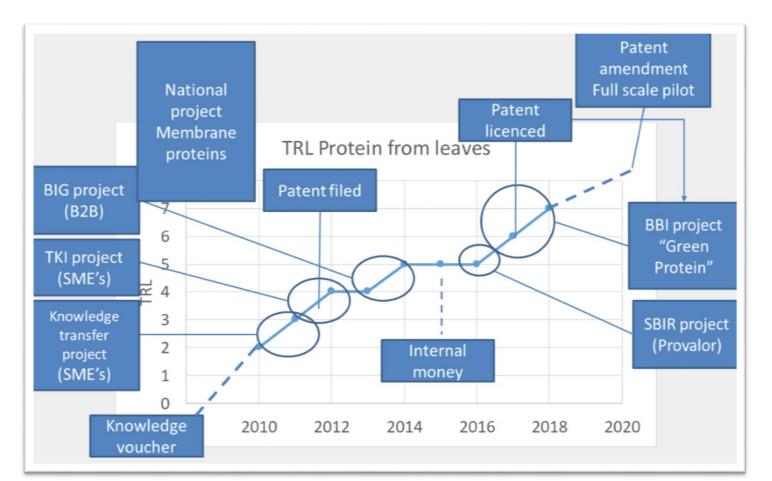
Budget: 5,5 M€

Timing: 4,5 year



9 partners from 5 countries will realize a demonstration plant for the production of functional leaf protein from a fresh salad processing plant.

3. Technology readiness development over time



4. Market entry:Accelerating GreenProtein – faster to the market

Learnings:

- It is never al linear and predictable development process
- Cosun partner in Icos Capital Fund was crucial
- Sustainable Proteins are a Strategic investment theme
- GreenProtein buy-out to Cosun
- Updated license agreement with WUR



GreenProtein

Royal Cosun is to strengthen its innovative power by investing more in startups. Its first acquisition is GreenProtein B.V., a technology start-up that has developed a process to extract high-added value proteins from green leaves. Cosun will also participate in the Icos Capital Fund III, an international investment fund specialising in start-ups in the biochemical and agrifood sectors and their digitisation.

GreenProtein B.V. of Wageningen, the Netherlands, has developed a process to extract RuBisCo, a high-value added protein, from green leaves such as sugar beet leaves. The protein can be used as a food ingredient.

The company will be positioned as part of Suiker Unie, which will also head the <u>GreenProtein</u> European collaborative project*. "GreenProtein evidently complements our mission of maximising the value of all sugar beet components. It will also help meet the growing demand for vegetable proteins," according to Paul Mesters, CEO of Suiker Unie.

The cooperative's participation in Icos Capital Fund (ICF III) will give Cosun access to expertise on relevant developments in the sector and to a large international network of young, innovative start-ups as potential partners in innovative projects. "With the world changing faster than ever before, early access to start-ups is vital for a productive innovation climate," explains Frank van Noord, Cosun's new director of innovation. "Participation in ICF III will sharpen our external focus and help us accelerate the time to market of our own projects."

In addition to Cosun, Nouryon (formerly AkzoNobel Specialty Chemicals) and the Bühler Group of Switzerland have taken part in the fund as strategic investors.

Take home messages

- Build an eco-system
- Develop knowledge transfer policies
- Support with professionals
- Focus on strategic themes
- R&D subsidy shifts towards tangible (new) businesses rather than projects
- Funding is out there!



Thank you for your attention!

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