

Presented by:

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patsnap

AGENDA

- 1. About PatSnap
- 2. Global Meat Consumption
- 3. Outlook on VC Funding
- 4. Innovative Start-Ups Receiving Recent Funding
- 5. Outlook on Patent Trends
- 6. Discovery Tool
- 7. Q&A

About patsnap

250M

Innovation data sources

8000+

Customers worldwide

13+

Years of patent expertise

\$100M

Raised to date

25th

Fastest growing tech company in the UK Leading

Machine Learning and Artificial Intelligence algorithms 700+

Employees worldwide

1900+

Academy users, on our free online IP courses





Al Connected Innovation Intelligence





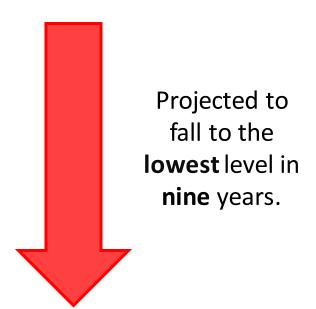
Connecting the World's Innovation Data

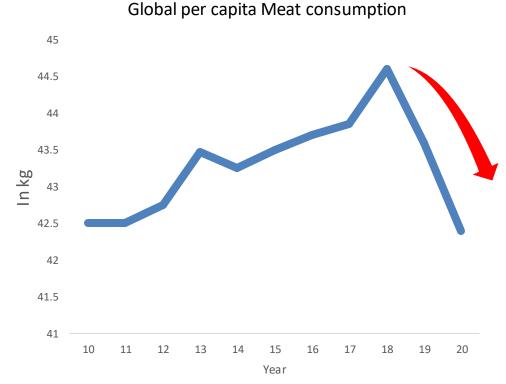


To help make better decisions

Global Meat Consumption

Global meat consumption per capita at its lowest in nearly a decade







Increased research focusing on diet and lifestyle's effect on Covid-19 patients



Top universities (2020) research output



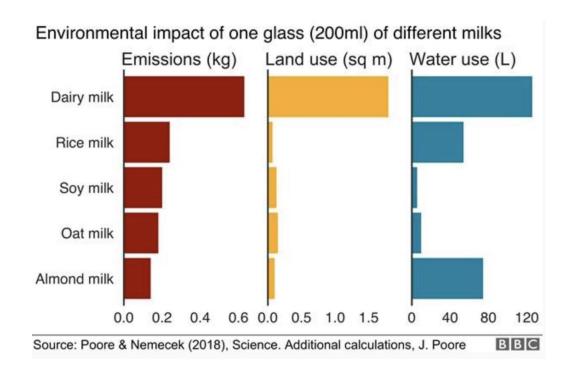








The most environmentally damaging plant milk is still better for the planet than dairy milk





Growing population



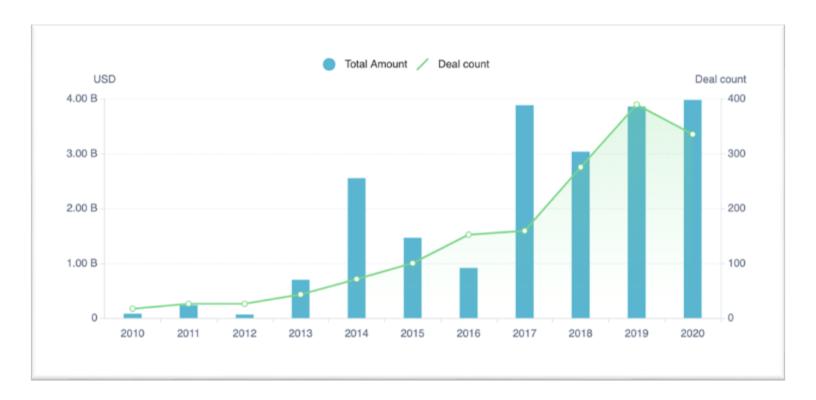
Growing demand





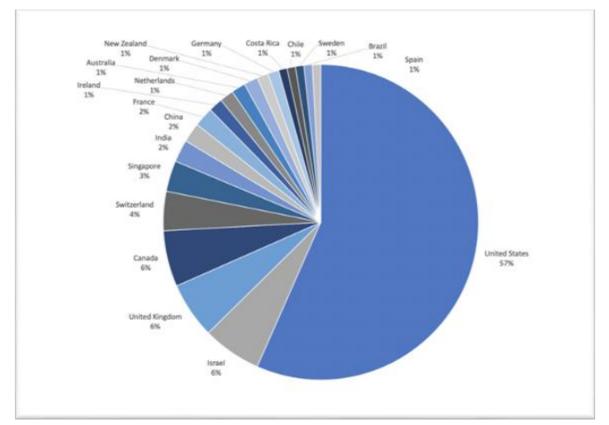
Outlook on VC Funding

Plant based related VC investments in the last 10 years



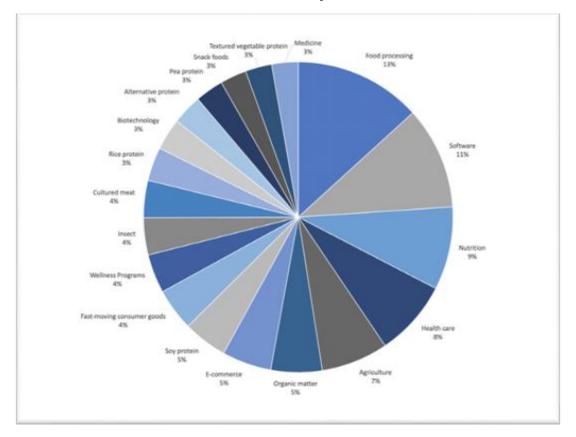


57% of plant based related VC deals are for US companies





Global distribution of VC deals on plant based sub-topics





Plant based related VC investments in the last 12 months





Three significant investments in March 2020





Impossible Foods's latest \$500M Series F funding

IMPOSSIBLE

Founded: 2011

HQ: California, US

Total funding: \$1.39B USD

Recent funding: \$200M USD on 13 Aug 2020

Portfolio Value: \$21.9 M USD

across 182 applications



Impossible making moves into the dairy substitutes market



Publication Number: HK42020001888

Assignee: Impossible Foods Application Date: 22 Jan 2020 Publication Date: 17 Jul 2020

Status: Pending

Compounds	Smell type	Bacteria to create	Additives, starting material
ethyl butanoate	Fruity, sweet		
2-butanone	acetone-like, fruity, butterscotch	TA61	lle, thiamine, Magnesium ions, or ascorbic acid in yeast extract media
Acetic acid	sour	sx	< glucose in all systems
decanoic acid	rancid sour fatty goaty	SX followed by MD68 or TA61	Pea vicilins +coconut milk (with yeast extract)
Methyl Isobutyl Ketone	herbal, fruity and dairy nuances	SX followed by MD88	Pea vicilins +coconut milk (with yeast extract)
gamma- octalactone	sweet ,coconut, waxy, creamy, tonka, dairy, fatty	SX+TA61	Pea vicilins +coconut milk (with yeast extract)
delta-octalactone	Sweet, fatty, coconut, tonka, tropical dairy	SX+TA61	Pea vicilins +coconut milk (with yeast extract)
gamma- nonalactone	coconul, creamy, waxy, fally milky	SX + MD88	Pea vicilins +coconut milk (with yeast extract)
5-Hydroxy-4- octanone	buttery	SX followed by TA61	soymilk
Ethyl octanoate	sweet, waxy, fruity and pineapple with creamy, and fatty	SX + MD88	yeast extract media with coconut milk
2-ethyl-1- H exanol	sweet, fruity, fatty	TA61	Vitamin B12, Riboflavin, Thiamine, CoenzymeA, or Ketoglutarate in yeast extract



Nature's Fund latest **\$80M** Series B funding



Founded: 2011

HQ: Illinois, US

Total funding: \$113M USD

Portfolio Value: \$76,500 USD

across 31 applications



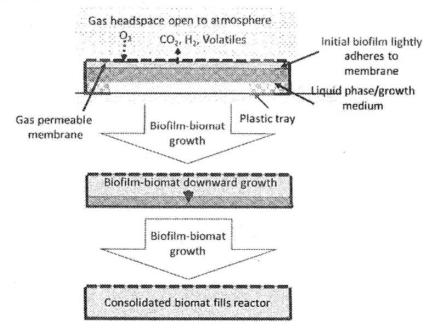
Nature's Fynd develops microbe-based proteins for meat substitutes.



Publication Number: WO2020176758A1

Assignee: Nature's Fynd Application Date: 27 Feb 2020 Publication Date: 03 Sep 2020 Status: PCT designated stage

Figure 12.





LiveKindly latest \$200M funding



Founded: 2020

HQ: California, US

Total funding: \$335M USD

Recent Funding: \$135M USD

Portfolio Value: \$76,500 USD

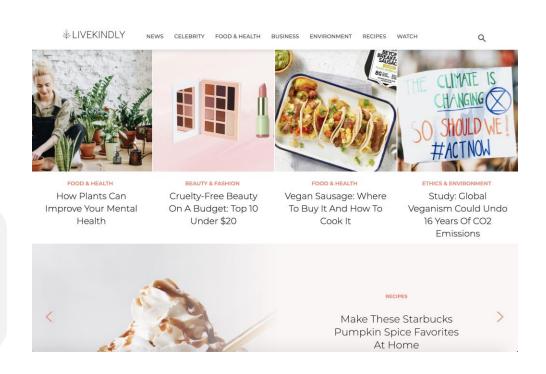
across 31 applications



Foods United has bought plant-based digital media platform LIVEKINDLY



Rebranded as The LIVEKINDLY Co, the company moves to capitalize on the trend for vegan meat alternatives.





Innovative Start-Ups Receiving Recent Funding

Innovative start-ups that have received recent funding



\$85M USD Series C 09 Sep 20



\$7.5M USD Post IPO 15 Sep 20



\$22M USD Series A 01 Sep 20



\$28.2M USD Series A 03 Sep 20



\$7.5M USD Seed 01 Sep 20



Disrupting a \$70 billion global infant nutrition market



Founded: 2012

HQ: Tel Aviv, Israel

Total funding: \$13.4M

USD (disclosed)

Recent funding: \$7.5M

USD

Post IPO Equity funding

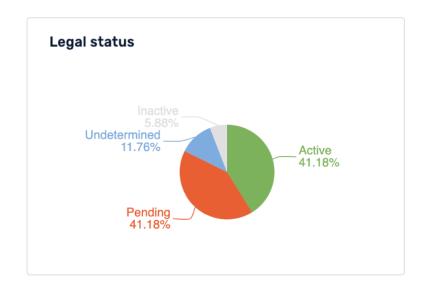




Non-dairy formula patent filed in 9 countries so far



Portfolio Overview		
Patent Applications	INPADOC Families	
17	4	
Portfolio Value	Average Patent Value	
\$ 403,500	\$ 201,750	





An entirely new kind of nutrient-rich protein



Founded: 2017

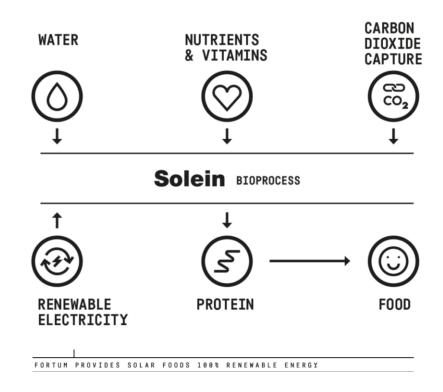
HQ: Southern Finland

Total funding: \$24.88M

USD (disclosed)

Recent funding: \$22.06

USD Seed





Patent: Bioreactors for growing micro-organisms

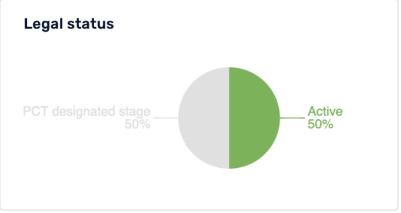


Publication Number: HK42020001888

Assignee: Impossible Foods Application Date: 22 Jan 2020 Publication Date: 17 Jul 2020

Status: Pending







Aiming to producing tasty, nutritious protein without depleting already scarce natural resources



Founded: 2016 HQ: Colorado, US

Total funding: \$34.3M USD

(disclosed)

Recent funding: \$28.2 USD

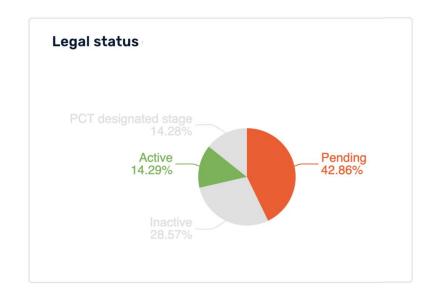




Patents for edible compositions including fungal mycelium protein



Portfolio Overview		
Patent Applications	INPADOC Families	
7	3	
Portfolio Value	Average Patent Value	
\$ 432,000	\$ 216,000	
-	-	





Turning data into plant based cheese and meat



Founded: 2019 HQ: California, US

Total funding: \$7.5M USD

(disclosed)

Recent funding: \$7.5 USD





A strong team with data science and machine learning experts



Founded: 2019

HQ: California, US

Total funding: \$7.5M USD

(disclosed)

Recent funding: \$7.5 USD



CEO: Oliver Zahn PhD in astrophysics

Zahn headed Data Science efforts at Google and Impossible Foods.



NotCo will move into the United States, Mexico, Peru and Colombia



Founded: 2015

HQ: Chile

Total funding: \$115M USD

(disclosed)

Recent funding: \$85 USD

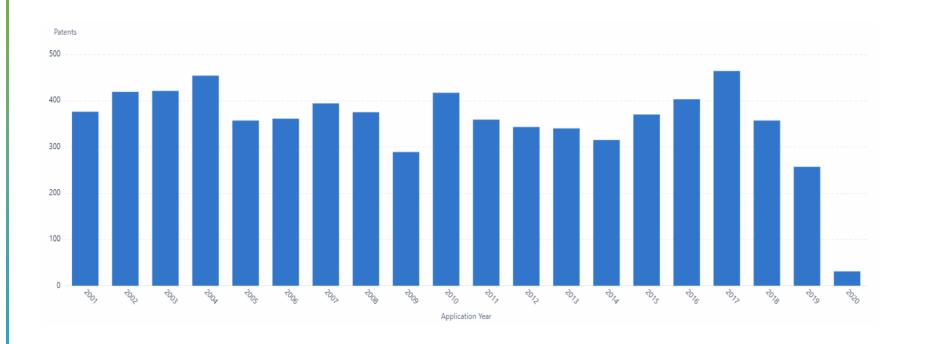






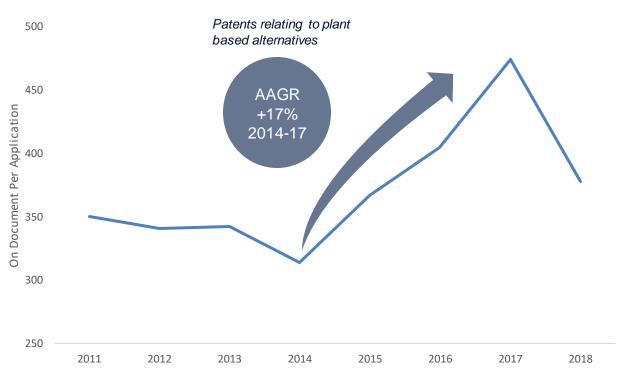
Outlook on Patent Trends

Patent application trend from 2001 - 2020



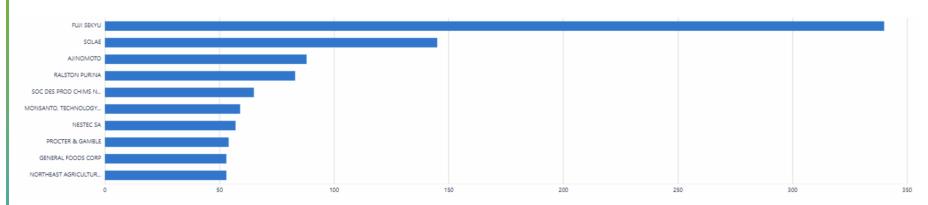


Steady growth in meat alternative patents from 2014





Top 10 companies with the most patents within the 'meat substitute' industry









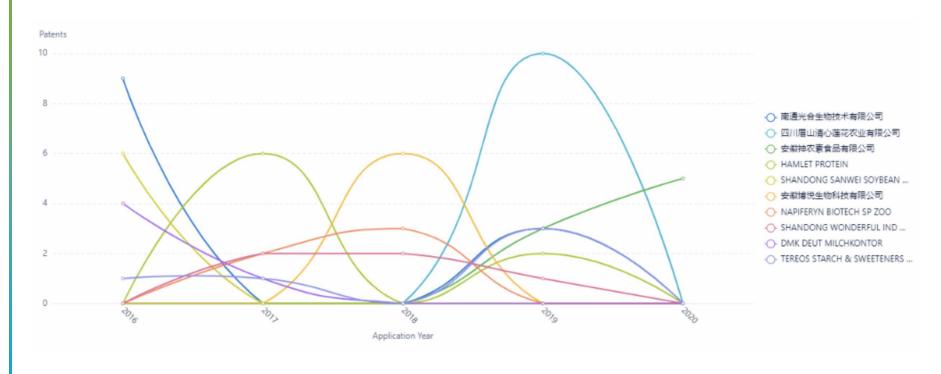
340 patents

85 patents

147 patents

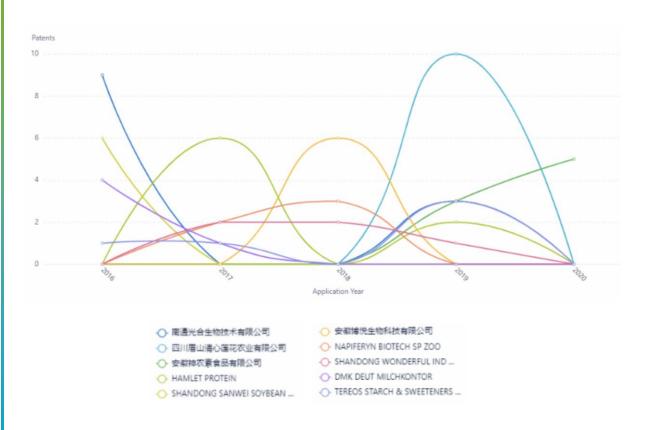


New entrants





Hamlet Protein applied for 8 patents in 2017









Every year the world changes... a lot!

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In 2018 there was ...



3.3 million Patent applications¹



3 million Academic papers published²



\$131 billion dollars of VC financing³



More than 3.3 trillion in announced M&A⁴

^{1. 2018,} World Intellectual Property Indicators (WIPI) WIPO

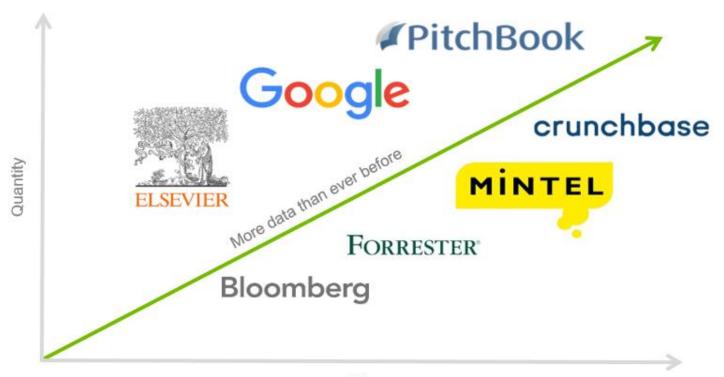
^{2. 2018,} STM report

^{3. 2018,} NVCA Venture Monitor, PitchBook

^{4. 2018,} Global M&A activity, Financial Times

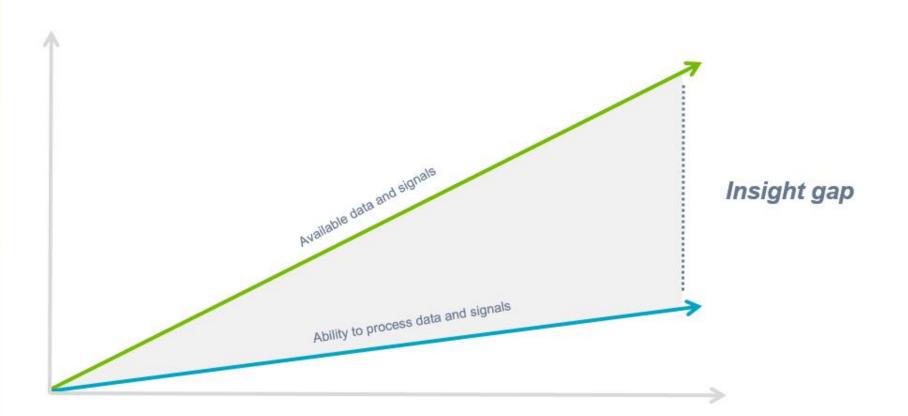


Tools are disparate, expensive or out of date



An ever-growing insights gap





To make better decisions, you need to be informed

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Competitor Intelligence

- Companies
- Investments
- M&A
- · Government Grants
- · Universities
- · Research Funding
- Experts

- Patents
- Tech Transfer
- · Clinical Trials
- Journal Papers



- News and Tech Blogs
- Market Reports
- Press Releases
- · Key Opinion Leaders

Q&A