Start-up Climate in the Netherlands

André van de Sande

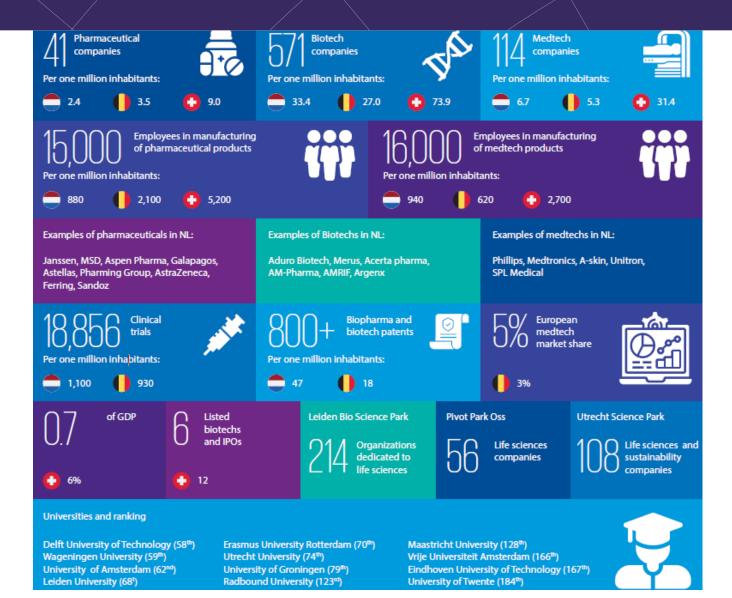
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Dutch life sciences sector in numbers

- 0.7% of GDP, \in 6 billion
- 9th largest sector
- Annual growth of 4%
- Approximately 30.000 people employed
- 726 life science companies
 - 571 Biotech
 - 114 Medtech
 - 41 Pharmaceutical
- Roughly 35% of Biotechs are a start-up (estimate HollandBio)



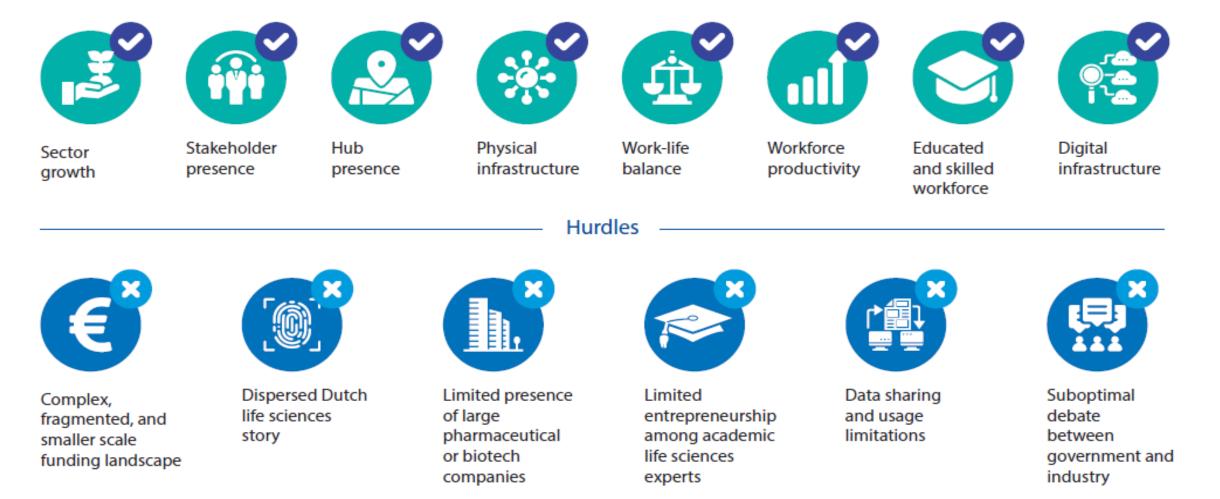
How do we compare?



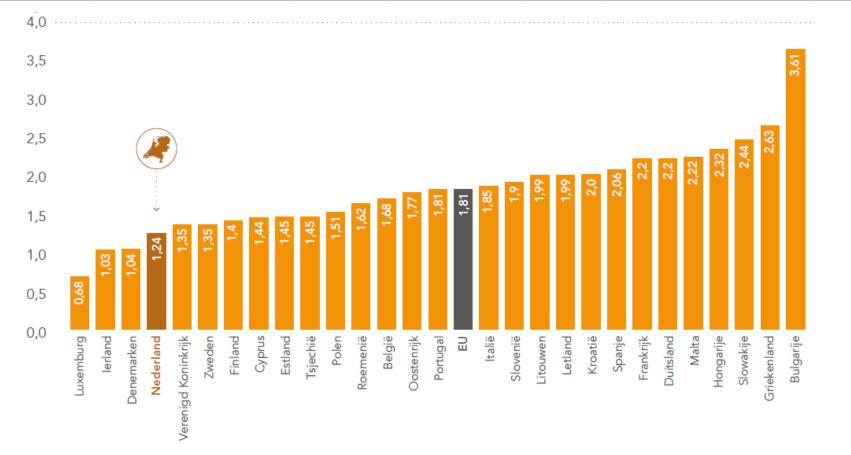
Source: KPMG Unlocking the life science potential

Dutch life sciences sector

Enabling preconditions



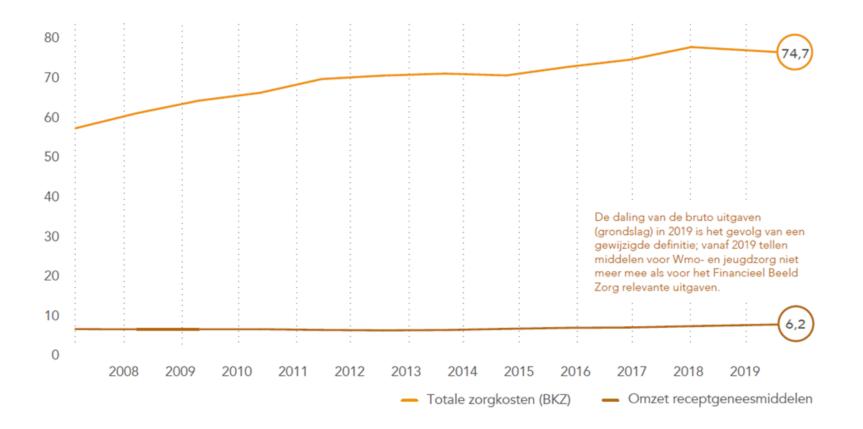
Dutch expenditures prescription medicines As % of GDP



Bron: CBS, Nederland langs de Europese meetlat, 2019



Dutch expenditures prescription medicines Totaal cost



Bron: Begroting VWS 2021 & Farminform

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From start-up to scale-up: AWTI recommendations

- 1. Clarify expectations for knowledge institutions (valorization)
- 2. Expand over provincial borders
- 3. Strenghten mix of competenties at start-ups
- 4. Support to maintain the ambition of knowledge intensive start-ups
- 5. Construct agreements with knowledge institutions to support further growth of start-ups
- 6. Improve financing possibilities for start-ups



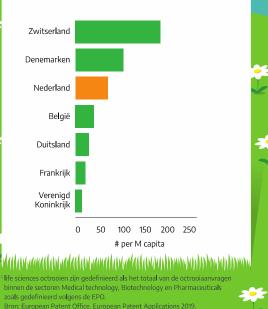
LOST IN TRANSLATION?

PATIËNT EN CONSUMENT PROFITEREN TE WEINIG VAN NEDERLANDSE TOPKENNIS

De uitstekende Nederlandse kennispositie op het gebied van life sciences vertaalt zich onvoldoende in bedrijvigheid en productontwikkeling. Daar valt veel winst te behalen.

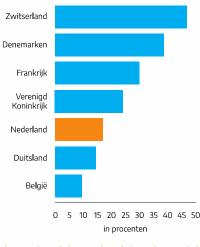
Nederland **scoort internationaal goed** op het aantal octrooiaanvragen vanuit academie en industrie. Het bewerkstelligen van een solide octrooipositie is een eerste essentiële valorisatiestap op weg naar nieuwe biotech producten.

Life Sciences Octrooiaanvragen 2019¹



Nederland scoort internationaal
minder goed op de groei van het
aantal life sciences R&D bedrijven
dat voortvloeit uit een octrooi. Een
zorgelijk signaal, omdat juist bedrijven
kennis doorontwikkelen tot producten
en praktische toepassingen.

Groei life sciences R&D bedrijven 2015-2019²

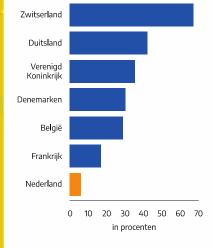


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life sciences R&D bedrijven zijn gedefinieerd als het totaal van de Biotechgate sectoren; Biotechnology Therapeutics & Diagnostics, R&D services, Pharma en Medtech. Bron: Biotechgate.



Groei life sciences R&D producten in ontwikkeling 2015-2019³



⁹ life sciences R&D producten zijn gedefinieerd als het totaal van de producten in de Biotechgate sectoren; Therapeutics, Diagnostics en Medical devices. Bron: Biotechgate.

Vijf aanbevelingen om de Nederlandse kennispositie te verzilveren voor patiënt en consument:

Holland

BIO

- 1 Blijvend investeren voor behoud van onze goede kennisbasis
- 2 Academisch ondernemerschap als erkend carrièrepad
- **3** Financiering die aansluit bij de behoefte van bedrijven
- **4** Consequent en stimulerend overheidsbeleid dat inzet op biotechnologie
- **5** Ontwikkeling én toepassing van innovatie inbedden in het Nederlandse ecosysteem

Pivot Park Part of a worldclass ecosystem



Vision

Pivot Park wants to be one of Europe's most attractive science parks in biopharmaceutical innovation and create a succesful growing campus with a strong community

- >60 companies
- 4750 jobs
- R&D focused on innovative medicines
- Production
- Every invested € in LSH in Oss translates to minimal 4€ in the region

pıvotpark

High-scoring R&D Regions in Europe

Leading European regions in Patent applications at the European Patent office 2018

	_	Region	Country	2018
	1	Bayern	Germany	8.238
	2	Île-de-France	France	6.713
	3	Nordrhein-Westfalen	Germany	5.125
_	4	Baden Württemberg	Germany	5.082
	5	North Brabant	The Netherlands	3.582
	6	Stockholm	Sweden	2.280
	7	Hessen	Germany	2.205
	8	Greater London	Great Britain	1.943
	9	Niedersachsen	Germany	1.712
	10	Rhienland-Pfalz	Germany	1.598
	11	Vlaanderen	Belgium	1.482
	12	Hovedstaden	Denmark	1.465
	13	Lombardia	Italy	1.406
	14	Auvergne-Rhône-Alpes	France	1.319
	15	Vaud	Switzerland	1.192
	16	Helsinki-Uusimaa	Finland	1.188
	17	South Holland	The Netherlands	1.066
	18	Austria West	Austria	1.023
	19	Zürich	Switzerland	1.014
	20	Basel-Stadt	Switzerland	980



Source: European Patent Office in Link Magazine (March 2019)

Brabant has become the hotspot of Life Sciences & Health

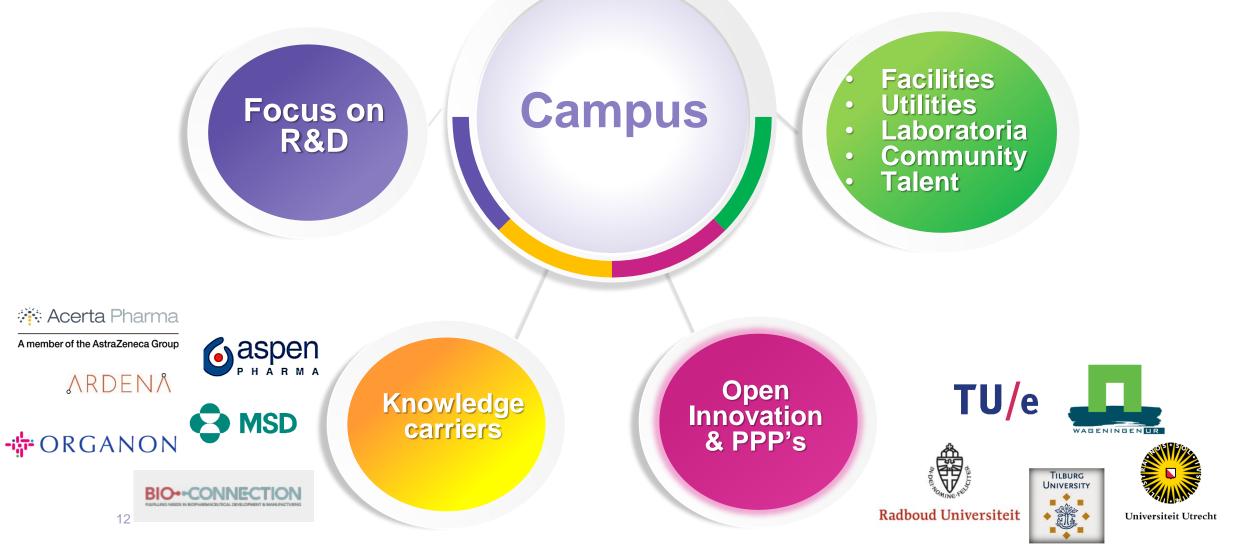
"Half of the total Dutch production value and 25% of all jobs ends up in Brabant – especially Biotech is booming"

Source: innovationorigins.com



Important pillars of the Pivot Park Campus

Bron: Buck Consultance 2018)



Incubator: valorisation with the best start-ups



- Lectorate
- Summerschool
- Minor
- Internships
- Post Graduate Education



venture challenge

Venture Challenge

TTO offices & BUSDEV

BOM Investor Readiness

Venture Capital / BOM

Coaching & Mentoring

Pivot Park invests in the future: 25 000 m2 extra

Grizzly

Panther

TAXABLE IN CO.

Racoon

ARREST OF TAXABLE PARTY.

ALKERT

Recent Successes





27 Jul 2020 Acalabrutinib (Calquence) from Acerta recommended for approval in the EU by the CHMP for Chronoic lymphocytic leukaemia (CLL)

ept 2020

Synaffix has been recognized with the "Best ADC Platform Technology" award at the 7th Annual World ADC Awards ceremony during the <u>#WorldADC</u> event!



Oct. 12, 2020 FDA grants Glycostem's oNKord® Orphan Drug Designation for Multiple Myeloma

PharmaCytics MADAM THERAPEUTICS

Nov. 2020

Pharmacytics and Madam Therapeutics develop a new class of antibiotics with oral availability

Lead Pharma signs a research collaboration and licensing deal with Roche to develop oral small molecules for immune Mediated Disease. Worth up to EUR 270 mln

Roche

eadpharma

Nov. 18, 2020

Pharming decides to build a new drug substance building at Pivot Park in Oss

Next steps

- View the Netherlands as one life science community and built a nationwide eco system
- Reduce the distance between academia and industry; more attention for valorization
- Improve the mix of competencies, stimulate entrepreneurship and continue to invest in education
- A government that understands the importance of life science and commits to full support of the sector
- Increase the attractiveness of the Netherlands for foreign investors.
- Make the industry an integral part of healthcare as a whole
- Active collaboration between science parks crossing provincial borders
 -with a joint proposition



Pivot Park ready to become the new

B(Oss)ton!