

Why are we here?



Nicholas W. Kelley, Ph.D.

Intelligent Health, September 2022

01

Why are we “here”? (location)

02

Why else are we here? (tech)

03

Why are we really here? (transforming health)

04

Examples!



**Why are cities
like Montreal,
Boston, London,
... hubs for AI in
health?**



?



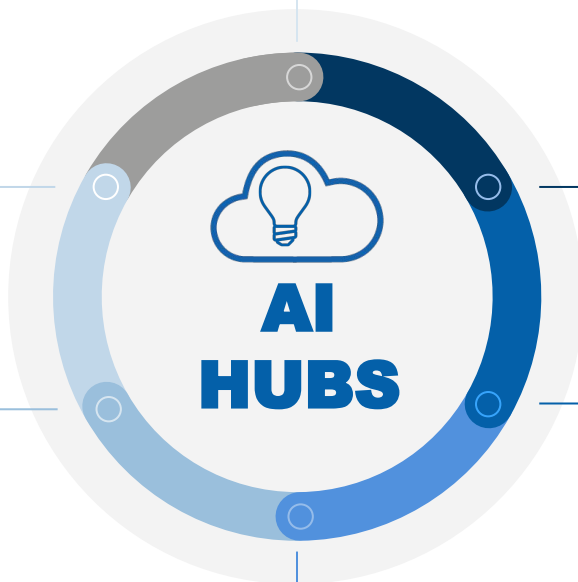
ACADEMIA & TALENT



DATA & INFRASTRUCTURE



START-UPS



INDUSTRY



FINANCIAL CAPITAL



GOVERNMENT SUPPORT



Why are we here *in Basel?*

Pop quiz!



700+

life sciences companies



\$5+B

financing rounds in last few years



15+

research institutes



30,000+

life sciences employees



1,000+

research groups



\$20B+

in research spending



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Examples!

Why else are we here? Because AI is cool

CNN

GAN

VAE

GNN

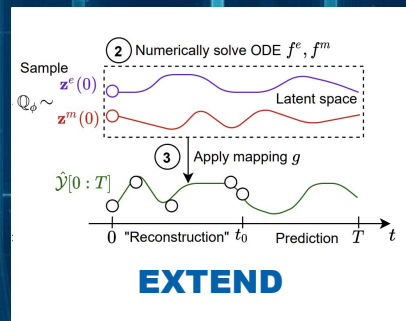
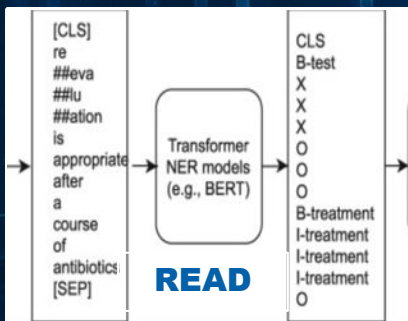
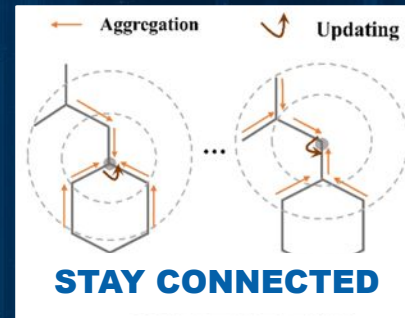
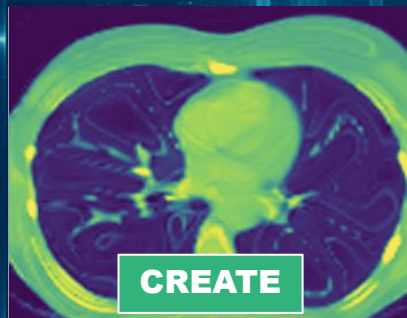
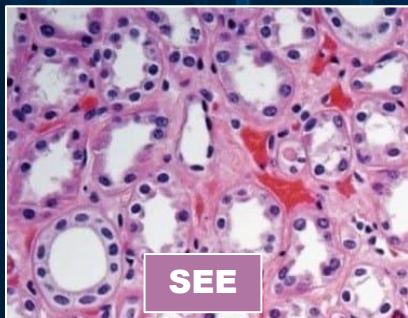
TRANSFORMER

RL

Neural ODE

What's next?

Why else are we here? Because AI is ~~cool~~ useful



So what?

01

Why are we “here”? (location)

02

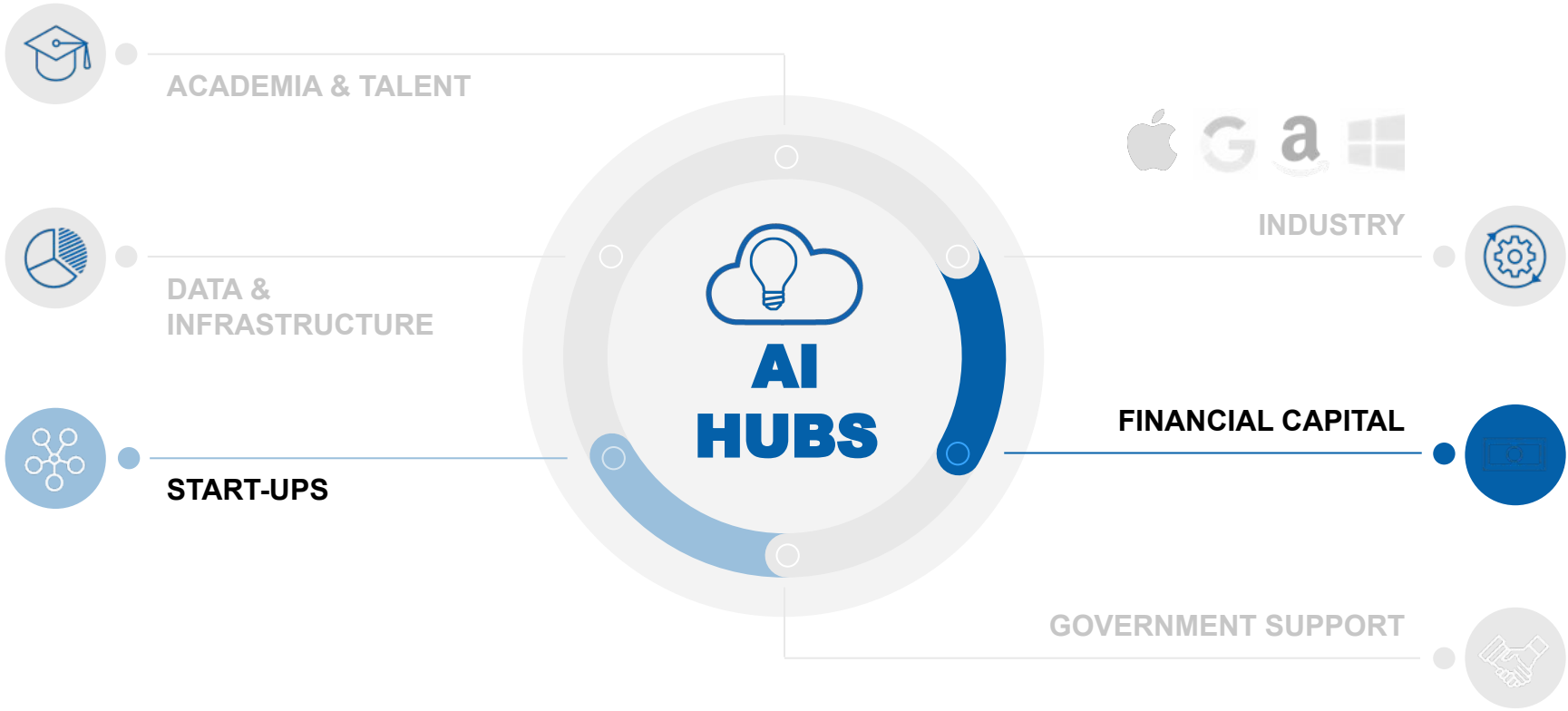
Why else are we here? (tech)

03

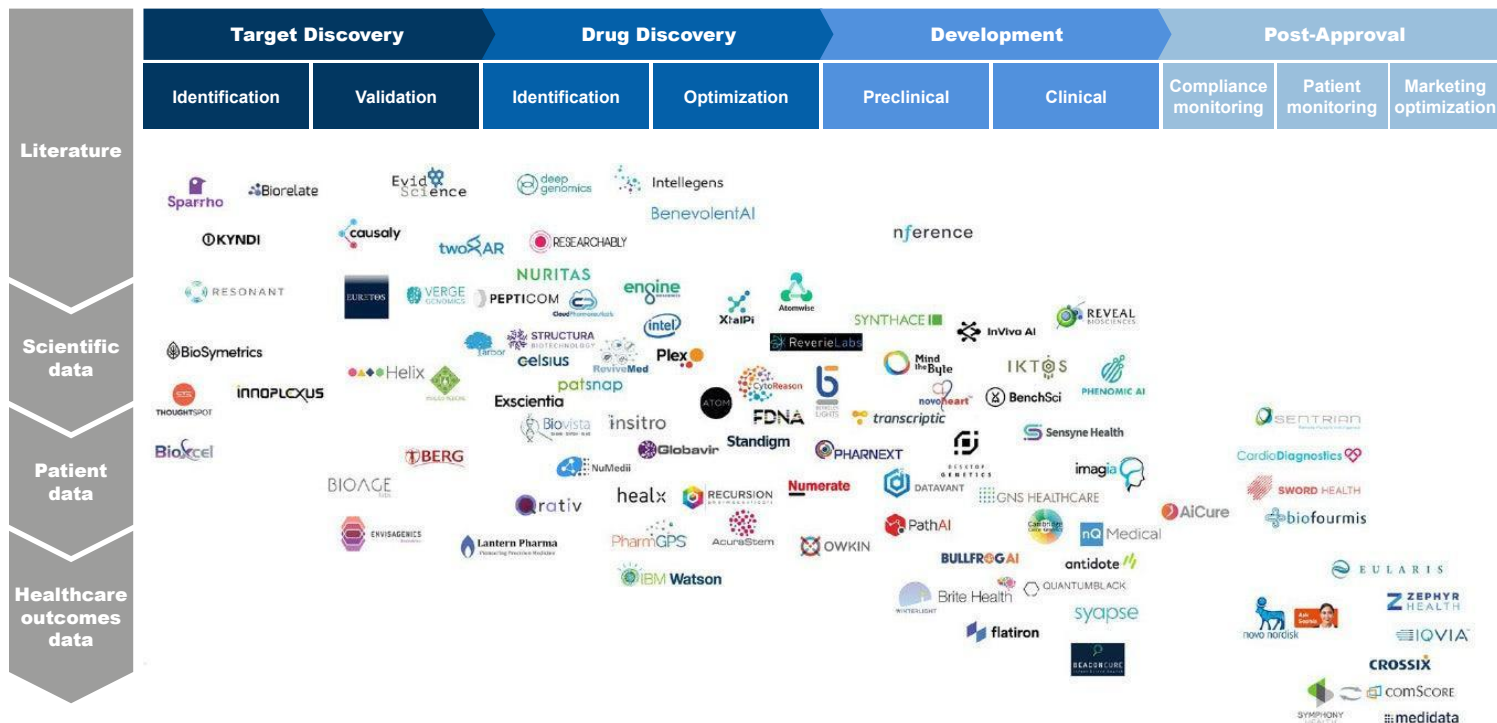
Why are we really here? (transforming health)

04

Examples!



What does the market think?



L.E.K. Consulting / Executive Insights, Volume XX, Issue 60, 2018
 Note: Many companies span multiple drug lifecycle stages and data types, therefore relative positioning is indicative
 Source: L.E.K. research

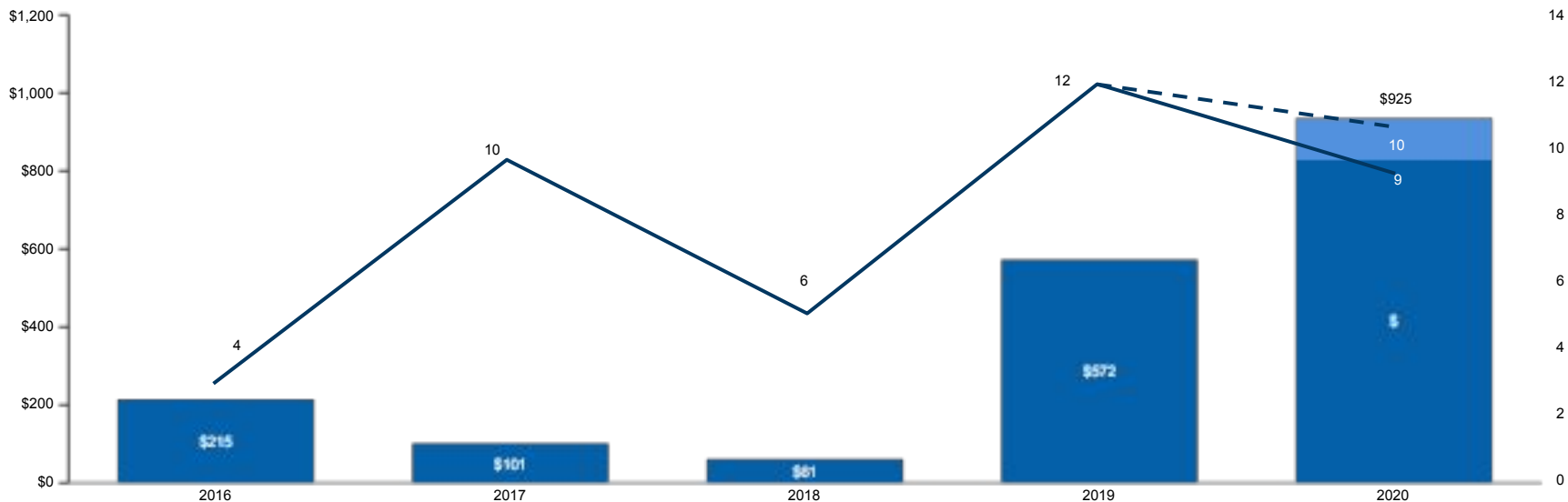
Novartis Data Science & A.I.



Increasing seed funding

- Deals
- - Deal run rate
- Funding amount (\$M)
- Funding run rate (\$M)

Funding amount (\$M)



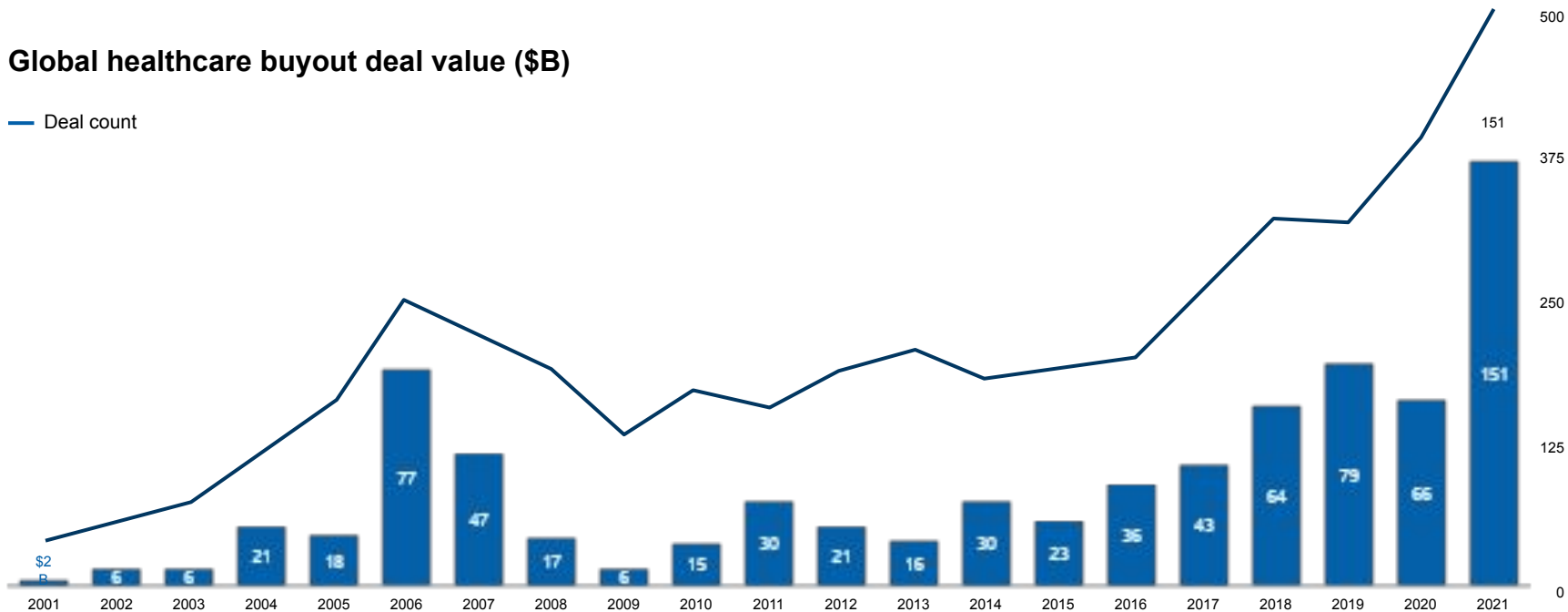
Number of deals

*Investments include equity rounds and incubator/accelerator rounds. Acquisitions are excluded from the chart

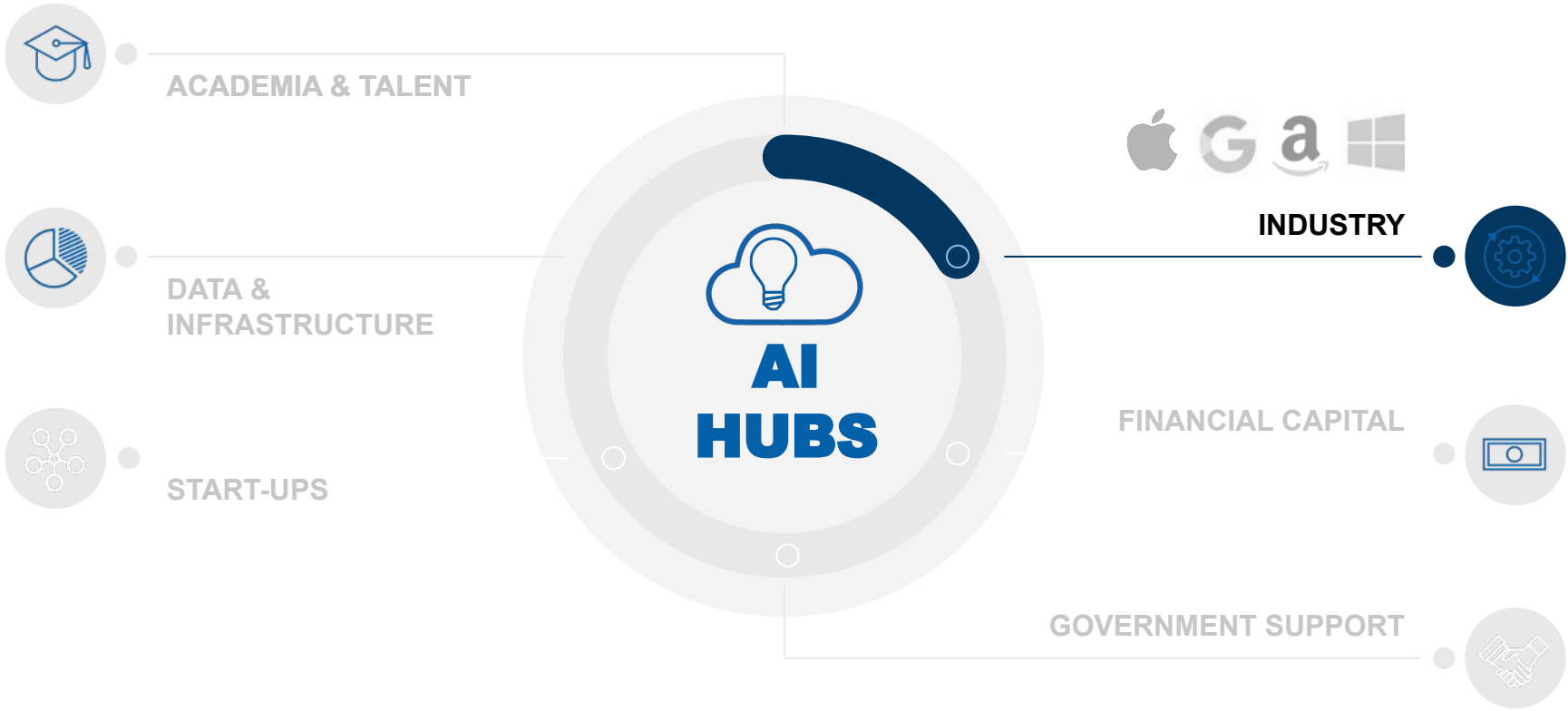
Increasing buyouts

Global healthcare buyout deal value (\$B)

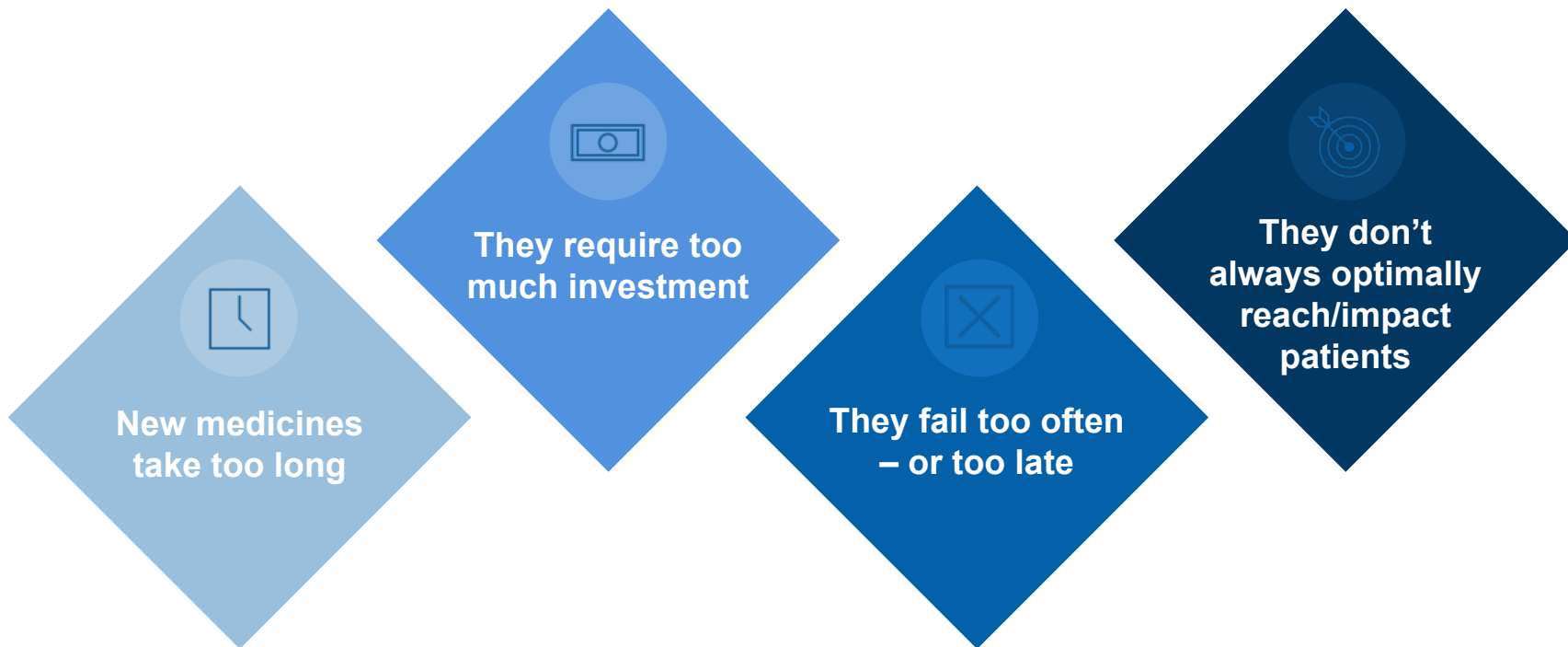
— Deal count



Notes: Dollar numbers are rounded; excludes spin-offs, add-ons, loan-to-own transactions, and acquisitions of bankrupt assets; numbers based on announcement data; includes announced deals that are completed or pending, with data subject to change; deal value doesn't account for deals with undisclosed values; total buyout deal values updated based on Dealogic 2021 sponsor massifications
Source: Dealogic; AVCJ; Bain analysis



What are we REALLY here to solve?

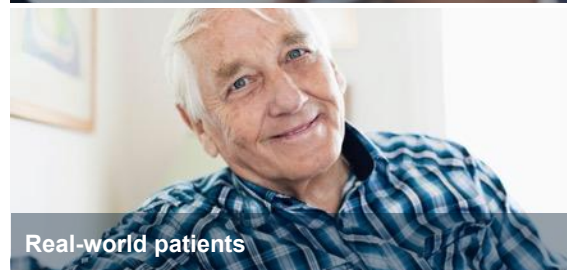
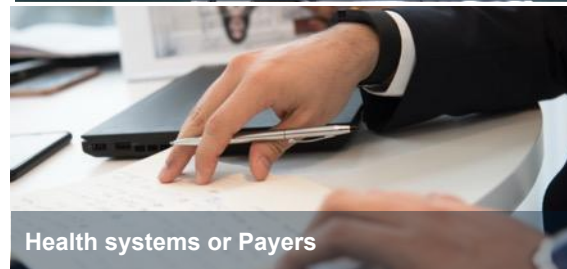


BETTER

FASTER

MORE EFFICIENT

ACCESS, OUTCOMES



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Examples!



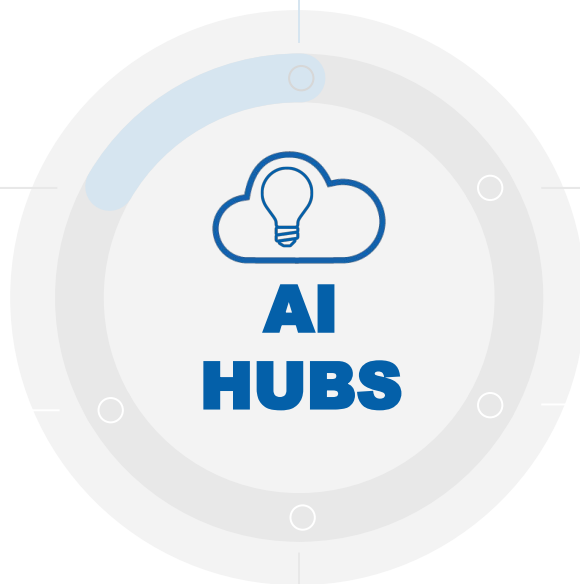
ACADEMIA & TALENT



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INDUSTRY



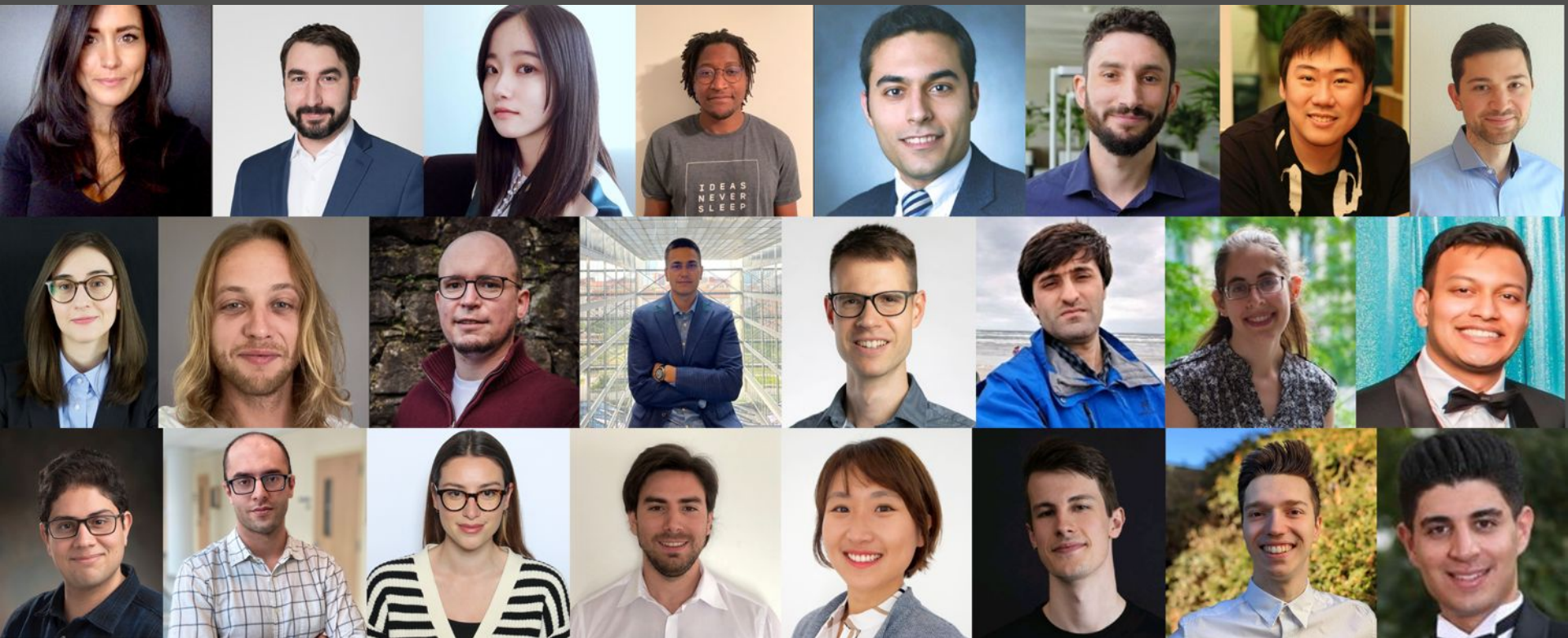
FINANCIAL CAPITAL

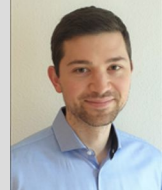


GOVERNMENT SUPPORT

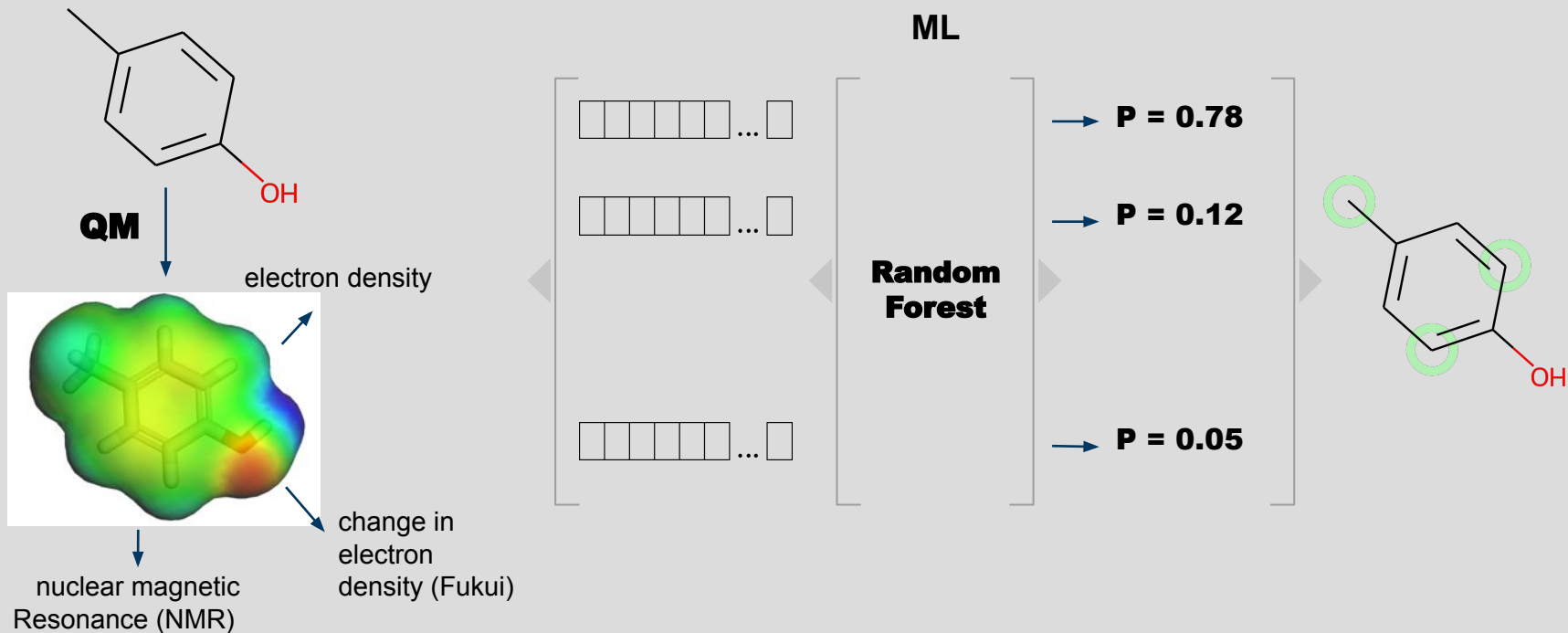


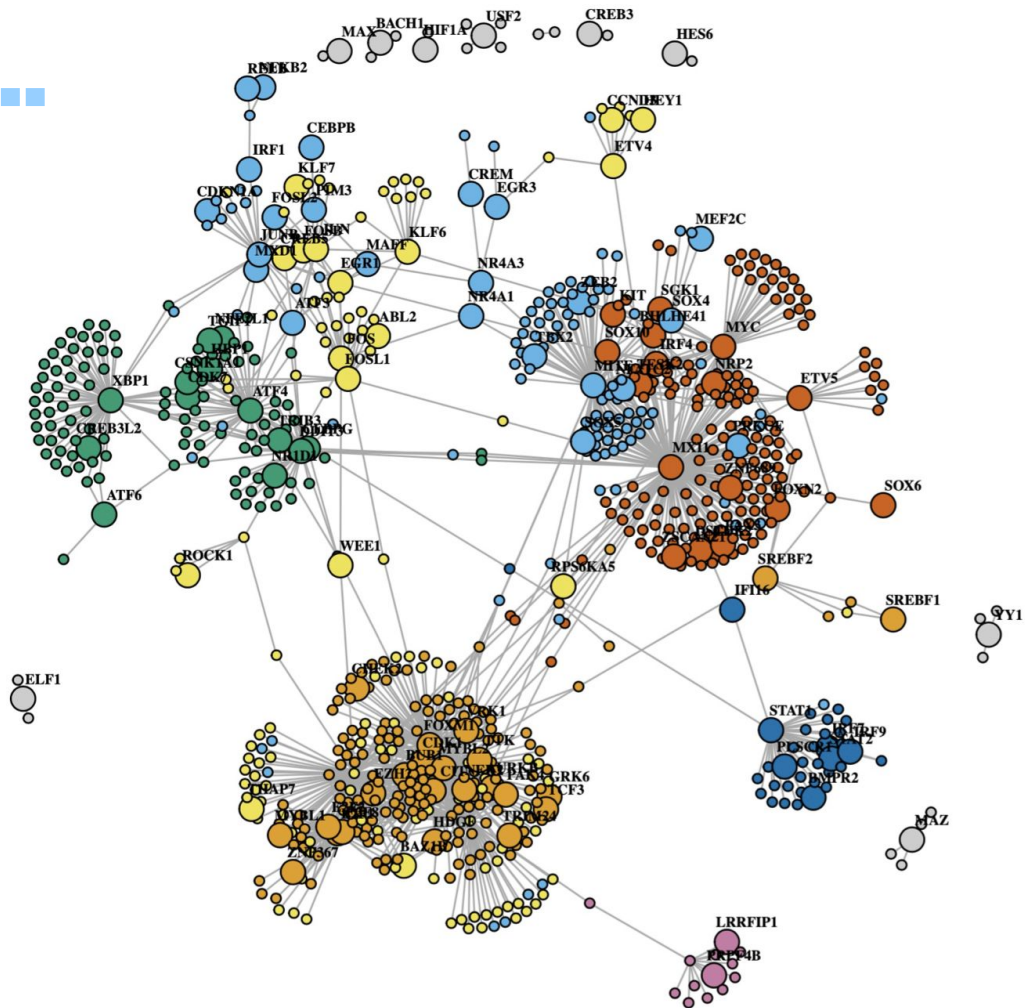
AI4Life Residency





...chemistry...

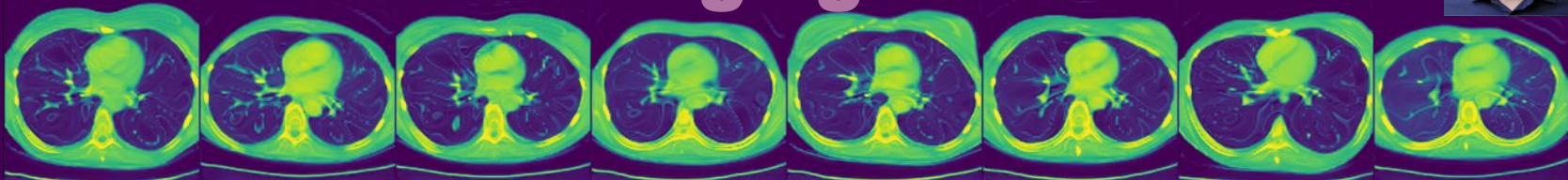




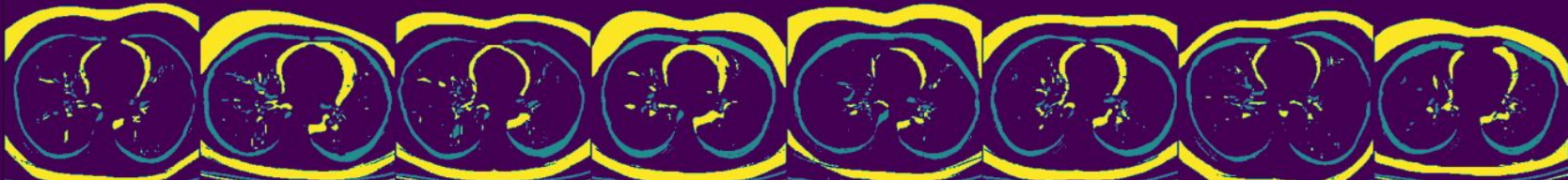


...patient medical imaging...

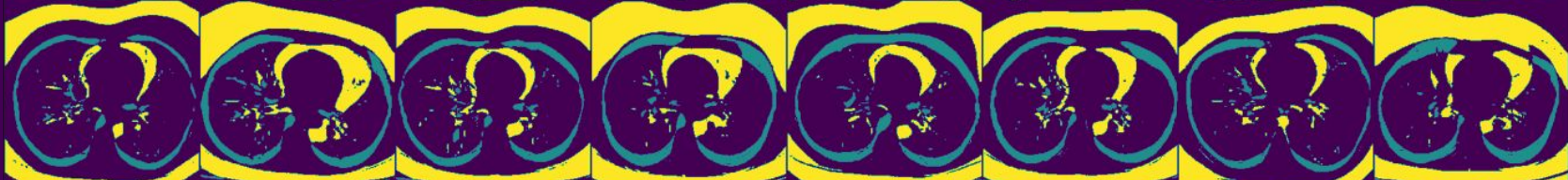
BMI < 18.5



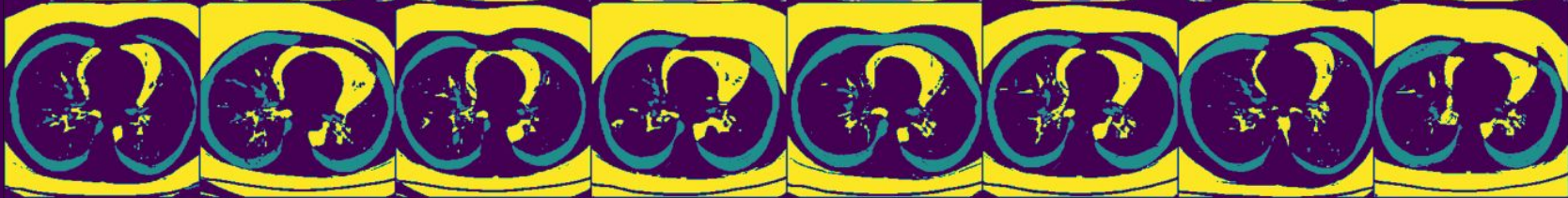
18.5 – 25



25 – 31



BMI > 31



AI4 Healthy Cities

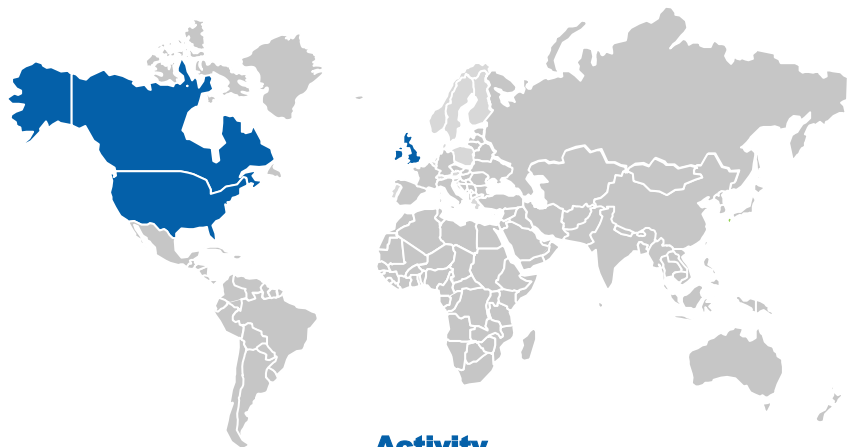
Recommendations for
Using AI to Transform Urban Health



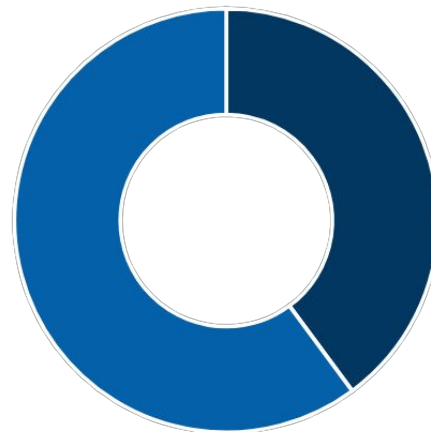
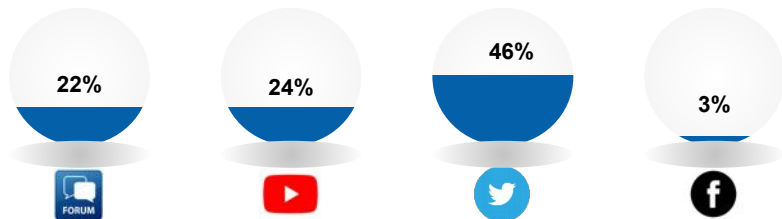


HEALTHTECH HUB AFRICA

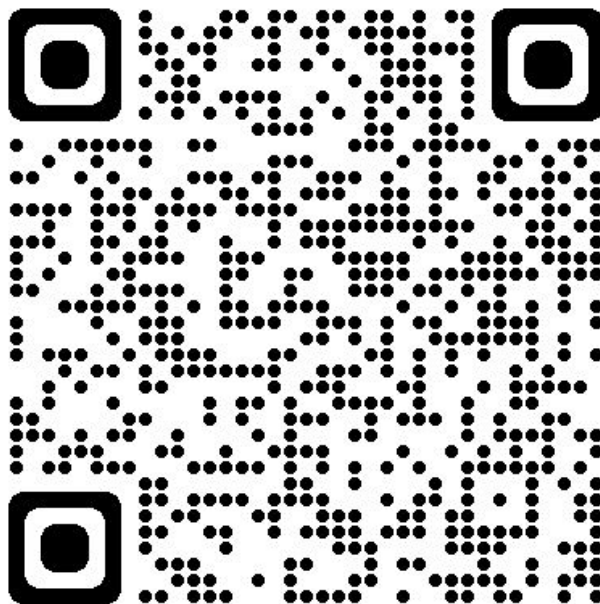
HCP's always listen to patients. But are they always heard?



Activity



Thanks Basel Area for the statistics!
And innovative discussions over the years



<https://baselarea.swiss/>



Thank you