



LUND
UNIVERSITY

LU Innovation

THE LINK BETWEEN ACADEMIA AND BUSINESS





UNDERSTAND, EXPLAIN
AND IMPROVE

AN INNOVATION SOLVES
A REAL PROBLEM

-

THAT SOMEBODY ATTRIBUTES VALUE TO

Schrödinger's Equation

$$i\hbar \frac{\partial}{\partial t} \psi(\mathbf{r}, t) = -\frac{\hbar^2}{2m} \nabla^2 \psi(\mathbf{r}, t) + V(\mathbf{r}, t) \psi(\mathbf{r}, t)$$

i is the imaginary number, $\sqrt{-1}$.

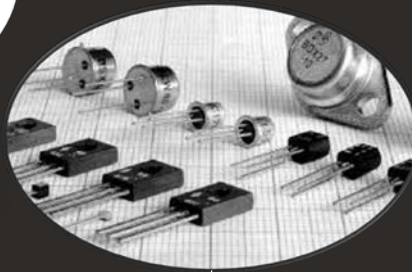
\hbar is Planck's constant divided by 2π : 1.05459×10^{-34} joule-second

$\psi(\mathbf{r}, t)$ is the wave function, defined over space and time.

m is the mass of the particle.

∇^2 is the Laplacian operator, $\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2}$.

$V(\mathbf{r}, t)$ is the energy influencing the particle.



1925

1947

1970

1982

2007

Anything else ?





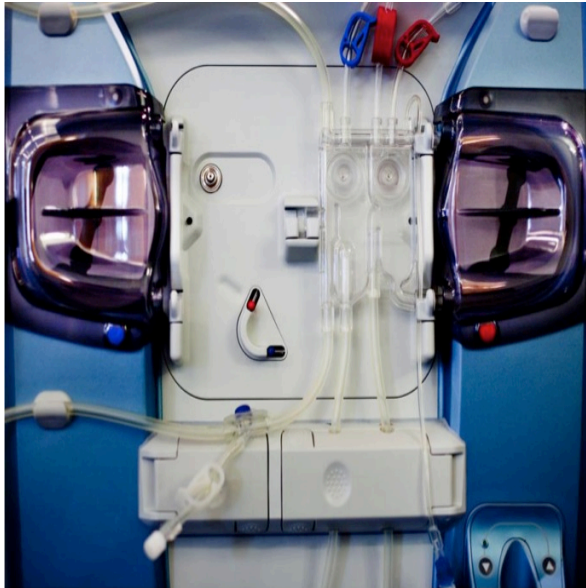
LUND

The city of great ideas

A person wearing a white lab coat is holding a petri dish. The petri dish contains a glowing blue substance with small white specks, resembling a microscopic view or a glowing liquid. The background is a blurred blue and white, suggesting a laboratory setting. The text is overlaid on the image in a white, serif font.

LUND UNIVERSITY IS ONE OF THE TOP 100 IN THE WORLD

- 30+ world leading research fields
- 7000+ employees
- 40 000+ students



Made in Lund.



MAX IV – the most brilliant X-rays for research.

ESS – European Spallation



The background of the slide is a dark, blurred bokeh effect consisting of numerous overlapping circles in various colors, including warm tones like yellow, orange, and red, as well as cooler tones like blue and purple. The circles vary in size and opacity, creating a sense of depth and light.

LU INNOVATION

We are the hub for innovation and commercialisation
at Lund University.

We work with the University's researchers
and students to bring
benefit and sustainable growth to society.

*Worth noting that in Sweden researchers own the rights to their findings – not the University.
This comes with both a great opportunity and a responsibility to utilize the results.*

How we do it – our tools



Business Development

- Support and advice
- Mapping (markets & IP)



Financial support

- To test your idea
- To verify your idea
- To accelerate your idea



IP & legal advice

- Patents, licensing & contracts
- Branding, copyright & design
- Business intelligence



Commercialization

- Starting a company
- Licensing
- Investment



Contacts & network

- Industry
- Meeting places
- Research applications



Education & Inspiration

- Lectures
- PhD courses
- Inspirational activities

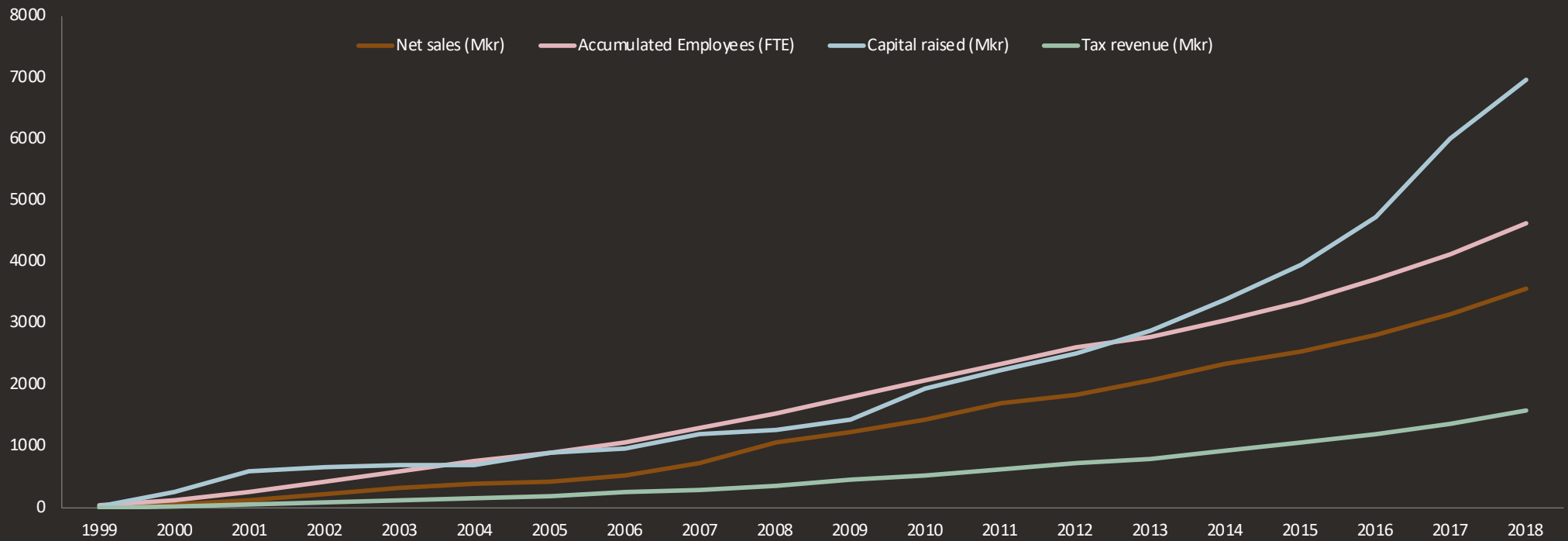
Financial tools

- **To develop an idea**
 - Testing – up to SEK 15 000
 - Verification (VFT) – up to SEK 300 000
- **To start a company or for recent start-ups**
 - Accelerator – up to SEK 300 000
 - Investment – up to SEK 500 000
- **Other support**
 - Support for collaboration (VFS) – up to SEK 150 000
 - Student projects – up to SEK 30 000 (3 months to test your idea)



Since 1999 LU Holding has invested in over 115 companies, which have generated over 4.600 man-years employment and SEK 1.6 billion in tax revenues.

SUSTAINABLE SOCIETAL GROWTH





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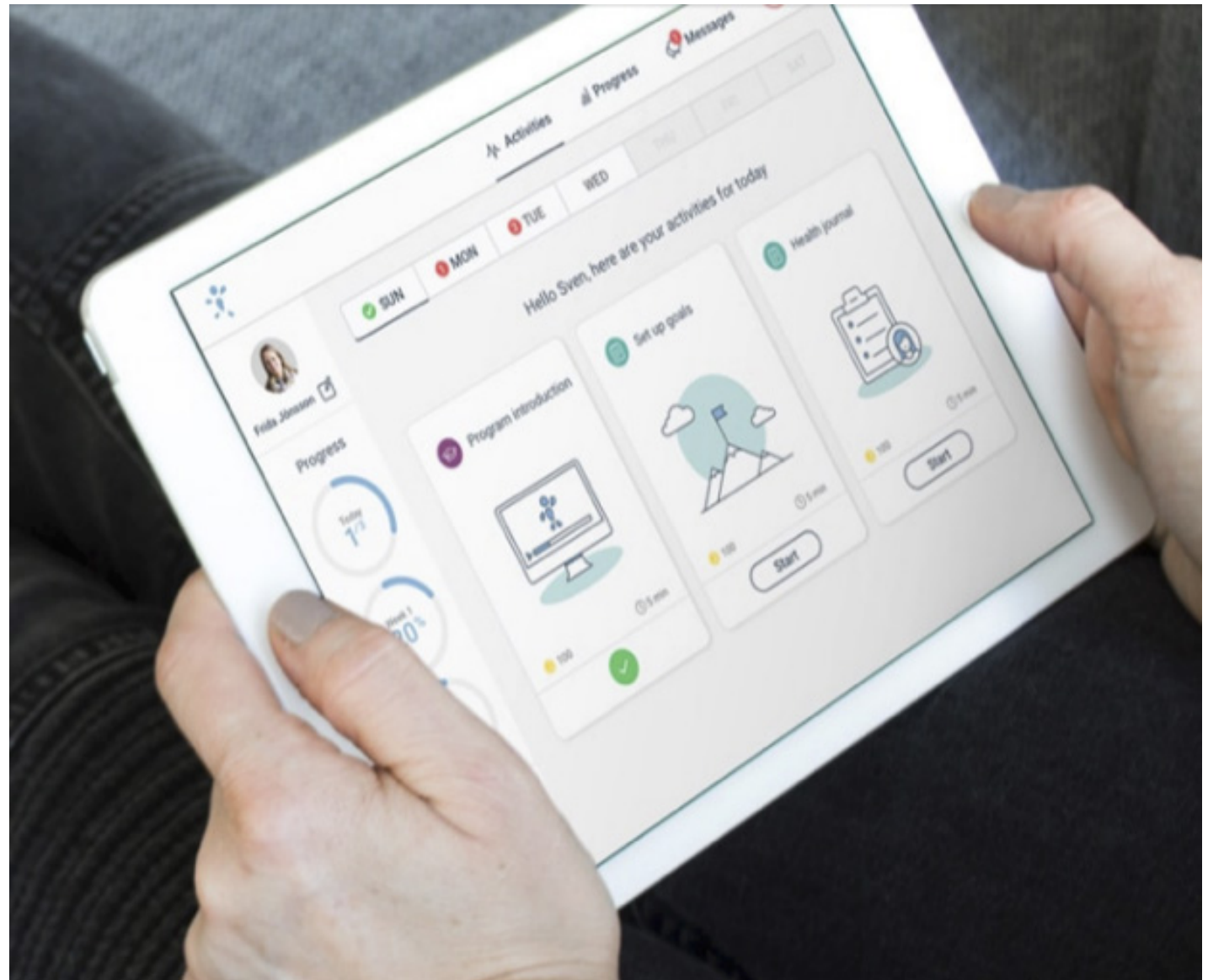
Some examples

LU HOLDING PORTFOLIO COMPANIES





- A digital osteoarthritis treatment – Joint Academy – which combines physical activity, education, and healthcare professionals that are always on hand.
- Treats over 1000 patients every week.
- Collaboration established with NYU Hospitals and their insurance company.



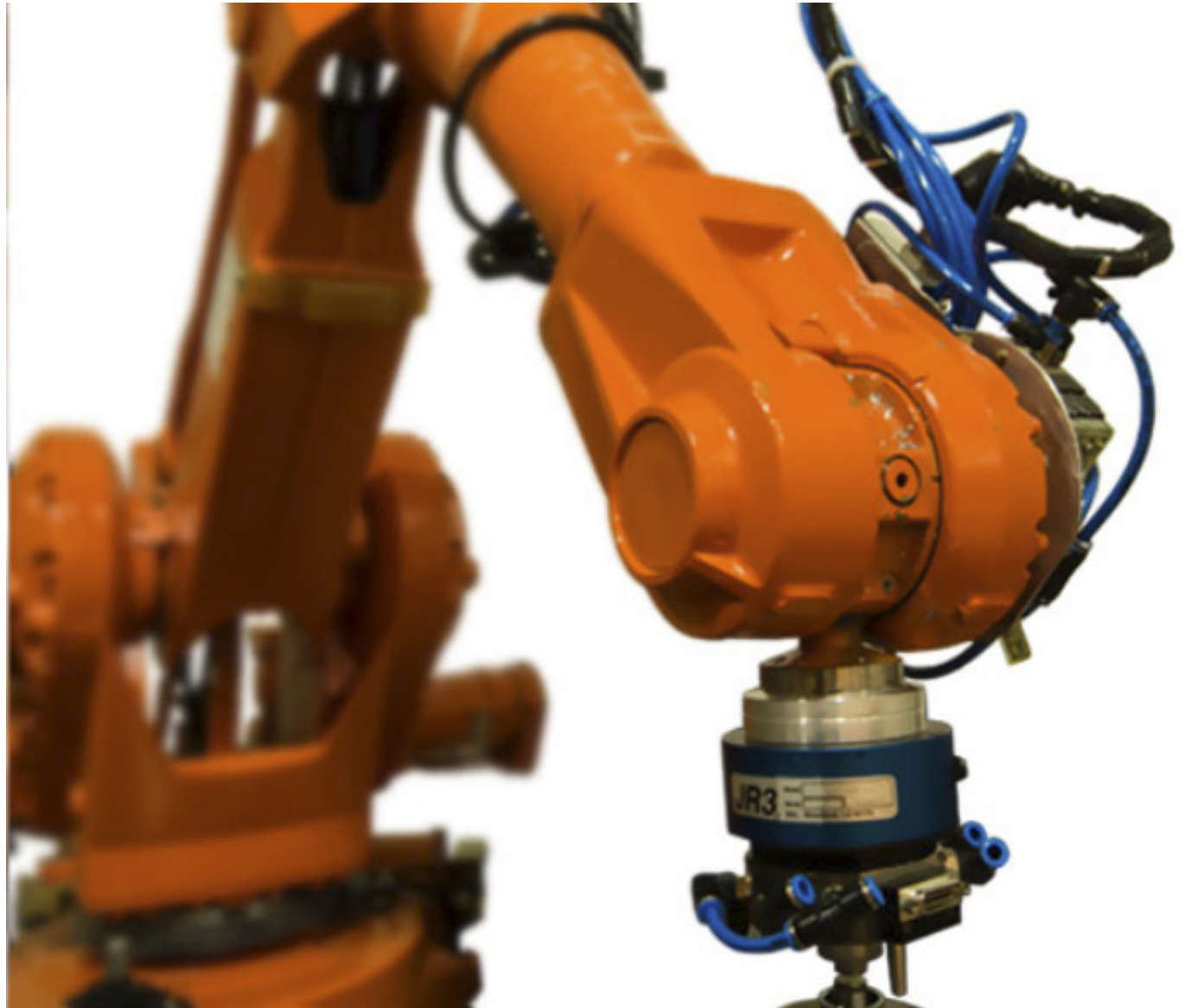


- Cyber security through Artificial Intelligence.
- Offers a solution that allow companies to reach and maintain a high security awareness, and to manage product security in a cost-efficient way.





- Specialised in methods for high performance and cost-effective use of robots.
- Enables:
 - Movements with greater precision.
 - Better predictability.
 - Better compensation for bending elements.



Scientific EdTech

- Develops a learning app covering basic mathematical knowledge for children in the earliest school years.
- Research shows the software to be more efficient than study material used today.





- AI-baserad diagnostikmetod för psykisk ohälsa.
- Baserat på hur patienter uttrycker sig i text.
- Målet är en CE-märkt produkt klar 2020.
- Erbjuder lösningen till såväl privata som offentliga kliniker.



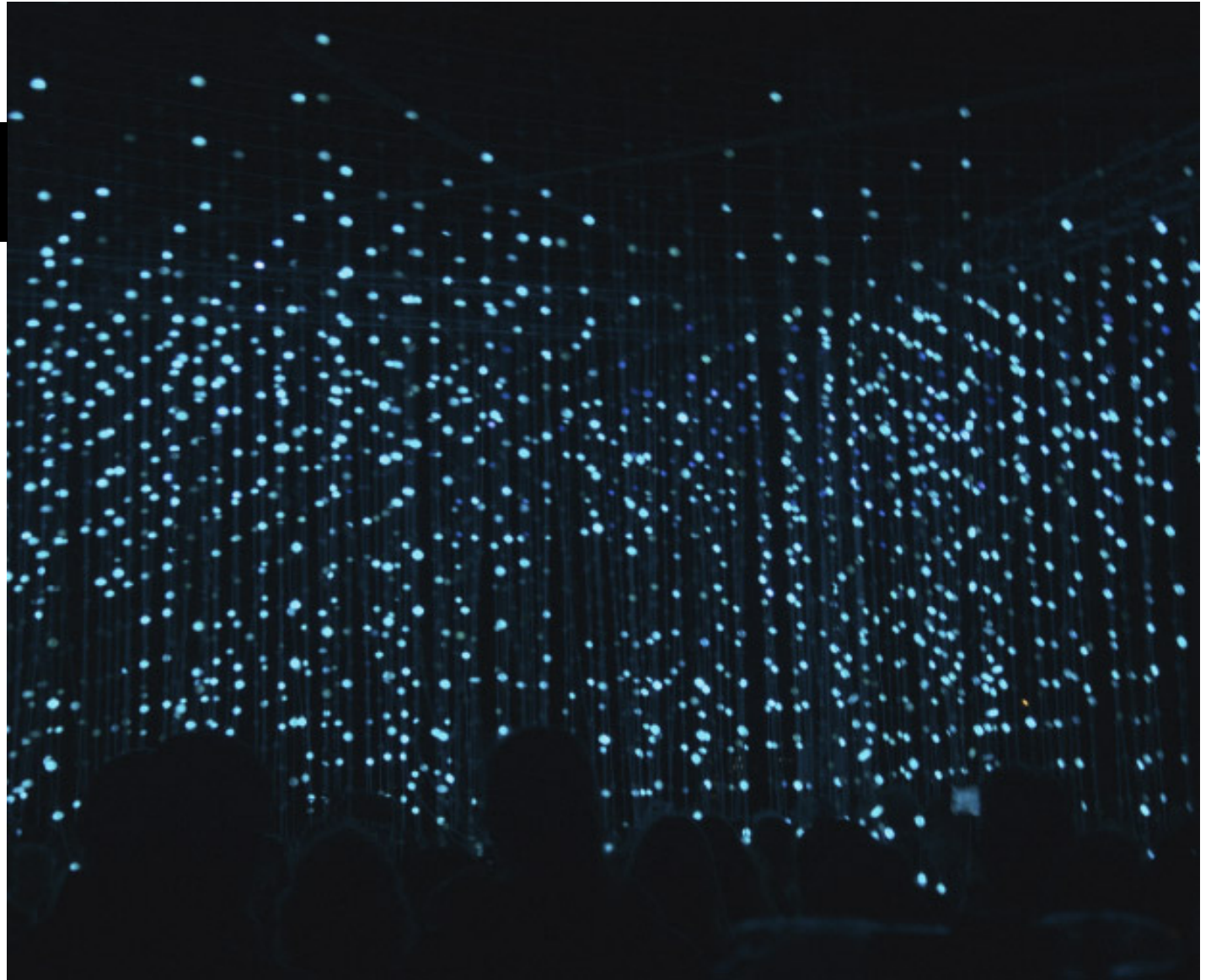


- Sports video recording made easy. Intelligent 4K video cameras, a cloud server and an app.
- The Spiideo system captures sports from multiple angles making it possible to view every detail of your game.
- Signed deals with for example Swedish football league Allsvenskan.





- Develops innovative solutions for medical challenges by combining medicine with mobile technology and mathematical science.
- Are now working on a solution to help stroke patients receive proper treatment on time.



Voice Diagnostic

- Uses algorithms and artificial intelligence to detect voice changes.
- The aim is to use it diagnosing various health problems.



When to contact LU Innovation?

Education

Before idea

Before publication

Before business

- Check out some of the courses available
 - Commercialize your research (7,5hp) → Sten K Johnson Centre for Entrepreneurship



When to contact LU Innovation?

- Education

Before idea

Before publication

Before business

- Don't discover things that already have been discovered
- Patent search



When to contact LU Innovation?

Education

Before idea

Before publication

Before business

- Patent first, publish later
- Advice and support before and during the patenting process
- Help to finance initial costs



When to contact LU Innovation?

Education

Before idea

Before publication

Before business

- Commercial potential?
- Idea and business development
- Legal counseling
- Link to industrial collaboration
- Network and financing



When to contact LU Innovation?

Or at any other time...

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