UNIVERSITÄT LIECHTENSTEIN

05 MAY

17:00 – 19:30

TECHNOPARK LIECHTENSTEIN

Summit on Emerging Technologies

In several booths we present most innovative companies, learn about emerging technologies, understand why innovation is relevant for investors and discuss latest findings from innovation research. And finally get inspired by our special guest speaker from Inficon.

Time	Agenda	Speaker
17:00	**Come together**	
17:30	**Welcome and Topics**	*Prof. Dr. Brecht*
17:40	Outlook 2022+: **Emerging Technologies**	*Dr. Kauffeldt*
18:00	**Why Innovation really Matters:** Some Insights from Research	*Prof. Dr. Brecht, Dr. Bayrle*
18:30	Introduction – **Innovation Booths**	*Prof. Dr. Brecht*
18:35	**Walk Around** – Innovation Booths	*Booths*
19:00	**Inficon – Innovation Champion from the Rhine Valley**	*Dr. Wälchli*
19:20	**Summary and Closing**	*Prof. Dr. Brecht*
> 19:30	**Networking and Apero riche**	

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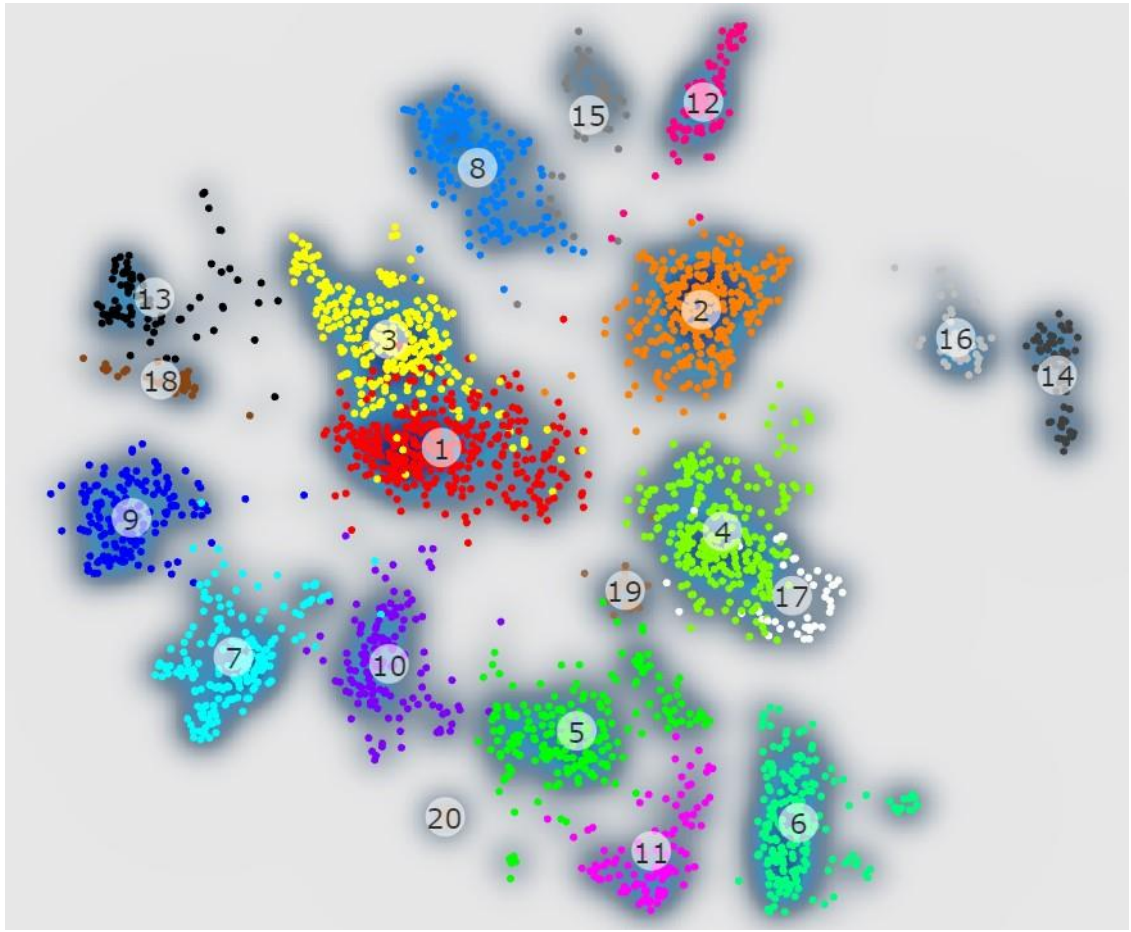
Welcome and Topics

– Erstes 3 D gedruckte Implantant für den Unterkiefer eines Kindes

4 D Druck

Welcome and Topics

– Who we are and what we do …



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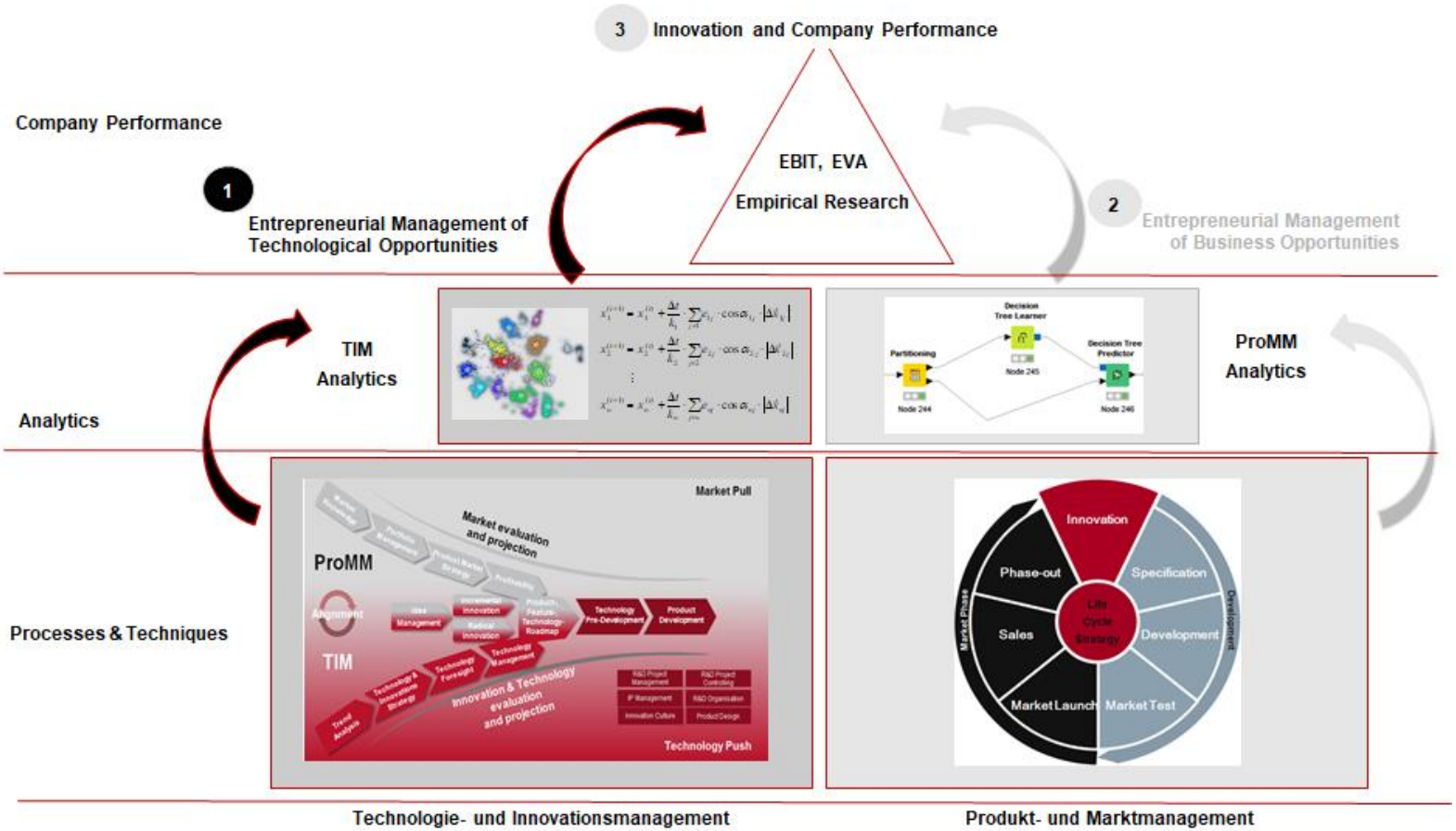
– Who we are and what we do …



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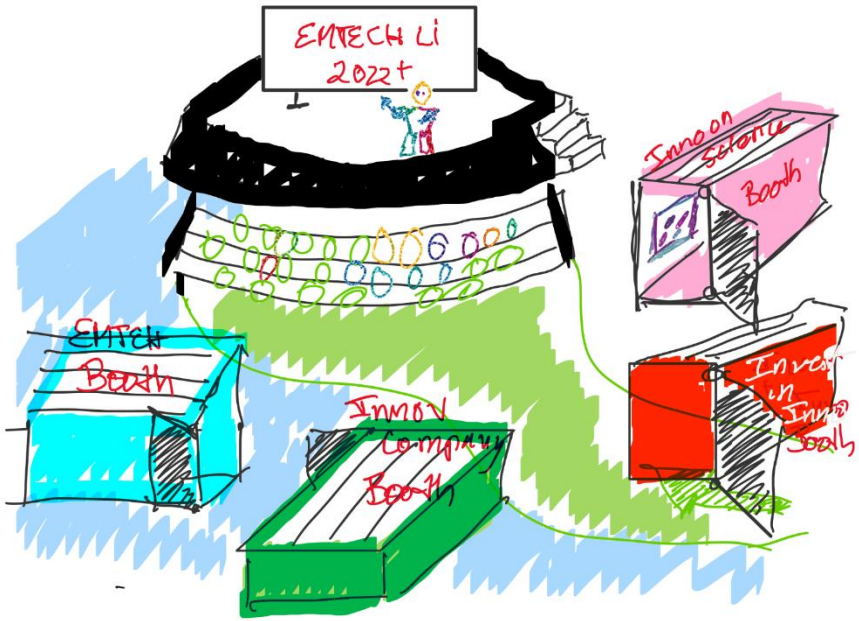
Welcome and Topics

– Our Concept – a different kind of a Summit



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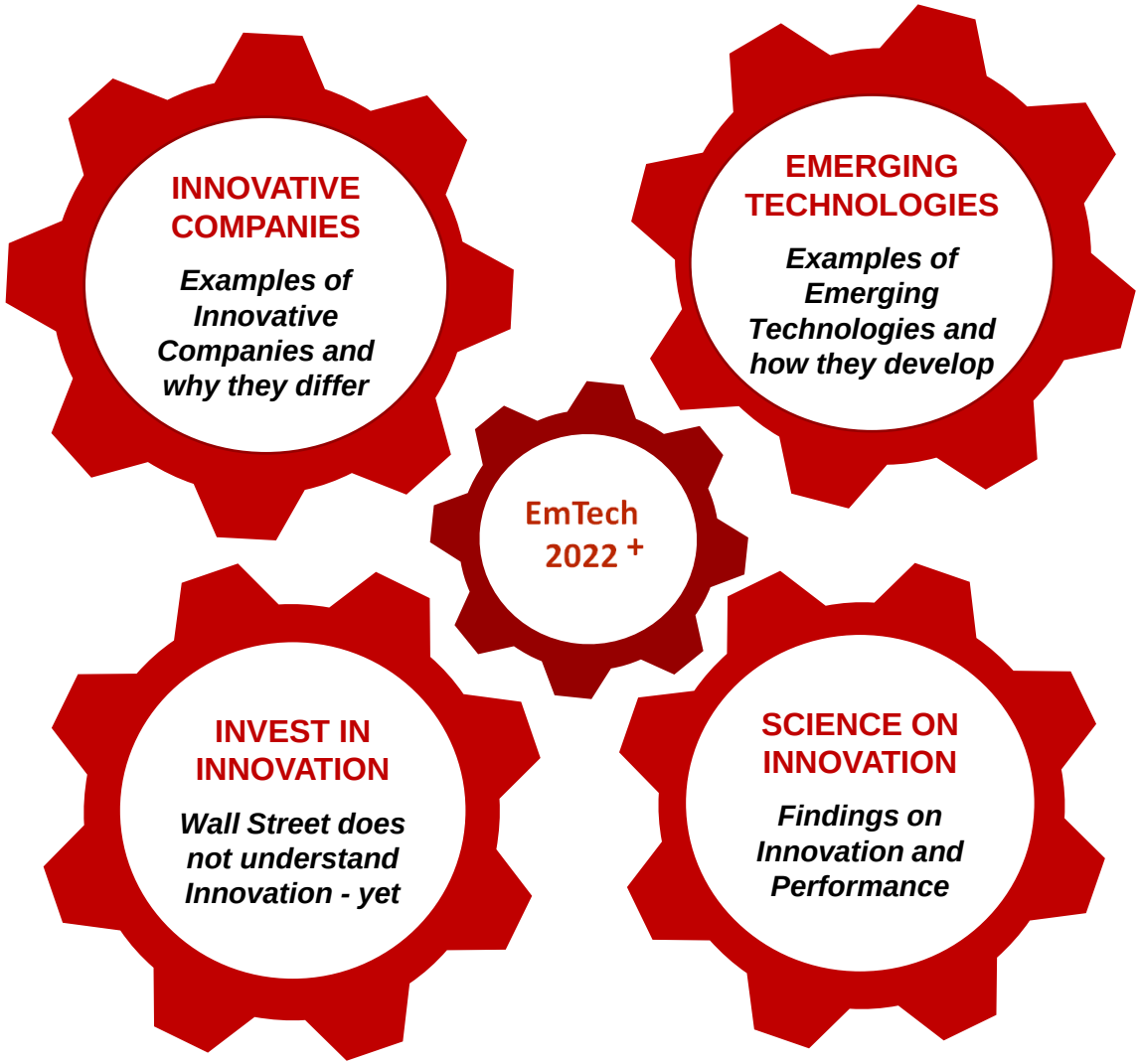

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Emerging Technologies 2022+: Methodology

– The emerging technology fields 2022* have been identified based on Big Data Analytics using 2.795 scientific publications.

1. Scientific Database

2. Search Strategy

Only Reviewed Articles

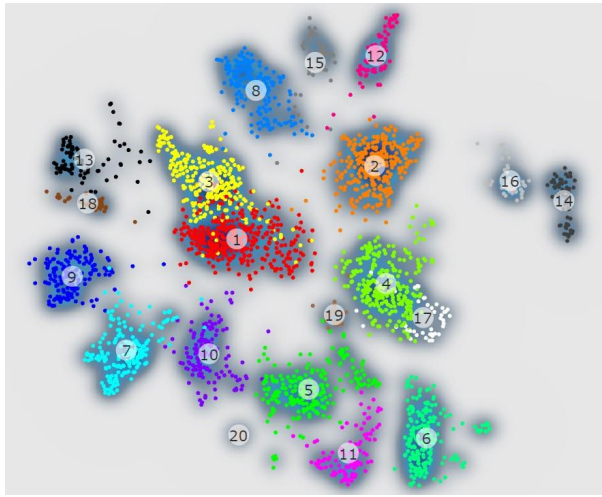
TITLE: (emerg* OR innovat* OR new OR disrupt* OR develop* OR unfold OR reveal OR unique OR improv* OR revol* OR latest OR ground$braking OR state-of-the-art OR "state of the art" OR recent OR advanc* OR experimental OR modern OR cutting$edge OR novel OR non$traditional OR unconventional OR evolv* OR evolut*) AND technolog*

2795 publications

3. Bibliometrics

Calculation of similarity based on cited references and lexical measures

4. Visualization of 20 Research Frontiers



NETCULATOR

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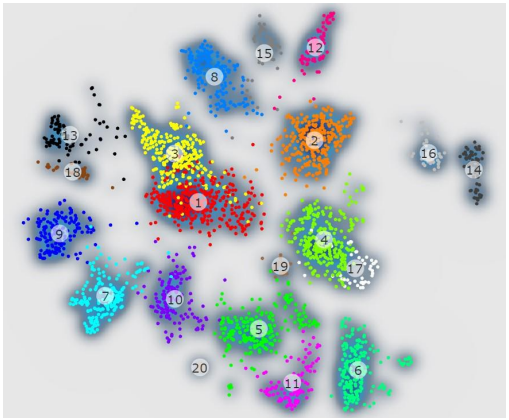
Emerging Technologies 2022+: Overview

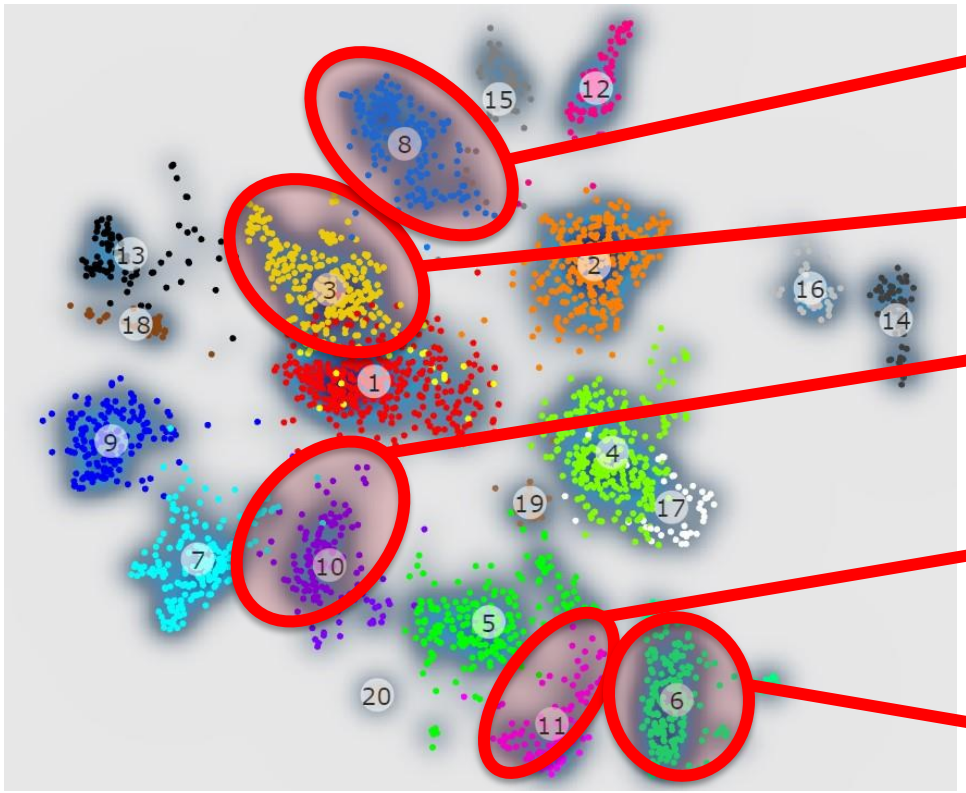
– 20 different and highly relevant emerging technology fields for the upcoming years have been revealed.

Cluster	Research Frontier
1	Digital Scan, Sensor & Analytics Technologies
2	Advanced Healthcare Applications
3	Novel Material Technologies
4	Research & Knowledge Management
5	Energy Transition Technologies
6	Green Innovation & Eco-efficient Technologies
7	Food Process- & Persavation Approaches
8	Bioengineering & Cell Treatments
9	Clean Water Technologies
10	Alternative Fuel & Energy Technologies



Cluster	Research Frontier
11	Climate & Zero Emission Studies
12	eLearning Approaches
13	Next Gen Sequencing & Genome Editing
14	Novel Material Printing Applications
15	Agriculture 4.0
16	New Robotic Surgery Technologies
17	Patent Analytics
18	Mining Technologies
19	Data Security Technologies
20	Diabetes Technologies

Emerging Technologies 2022+: Deep Dive



8. Bioengineering & Cell Treatments

3. Novel Material Technologies

10. Alternative Fuel & Energy Techn.

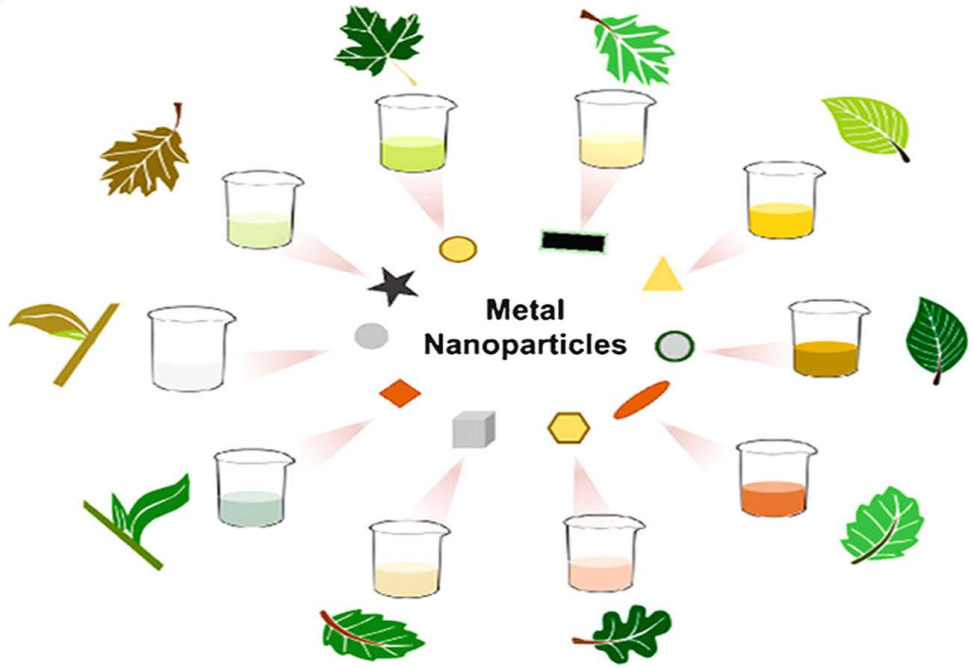
11. Climate & Zero Emission Technologies

6. Eco-Efficient Technologies

Selected Emerging Technologies 2022+: 3. Novel Material Technologies

Research Topics

- **Precision Manufacturing**
  e.g. laser material processing;
- **Magnetic Energy Metals (MEMs)**
  e.g. recovering magnetic micro particles from spent lithium-ion batteries
- **Green Synthesis**
  e.g. synthesis of silver-nanoparticles (AgNPs) for unique properties and potential applications in medicine

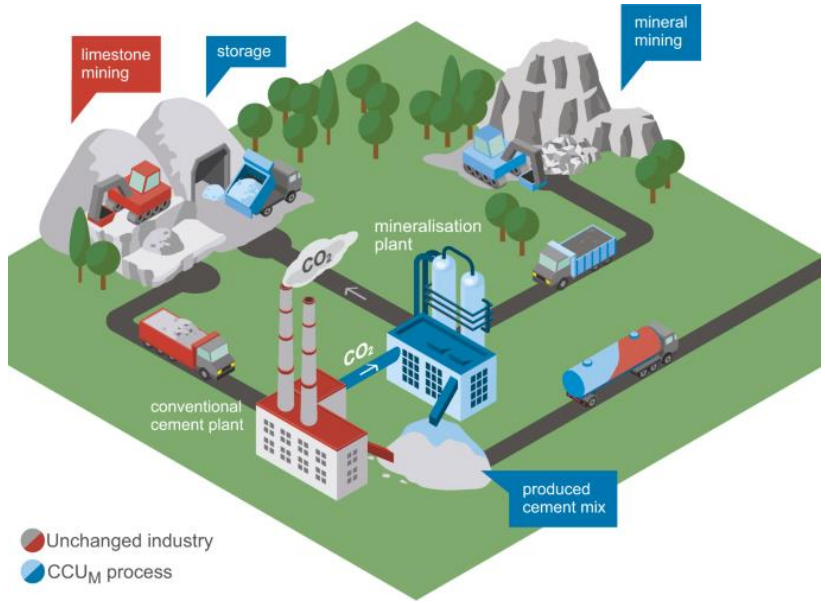


El Shafey, A. M. (2020). Green synthesis of metal and metal oxide nanoparticles from plant leaf extracts and their applications: A review. *Green Processing and Synthesis*, *9*(1), 304-339.

Selected Emerging Technologies 2022+: 6. Eco-Efficient Technologies

Research Topics

- **Green Innovation – Impact Ratings**
  e.g. eco-efficiency (EE), eco-technology innovation (ETI) and eco-well-being performance (EWP)
- **Clean Tech – Inter City Network**
  e.g. green supply chain (management)
  Emerging CO2-Mineralization Technologies
  e.g. coal fly ash, steel slag or cement

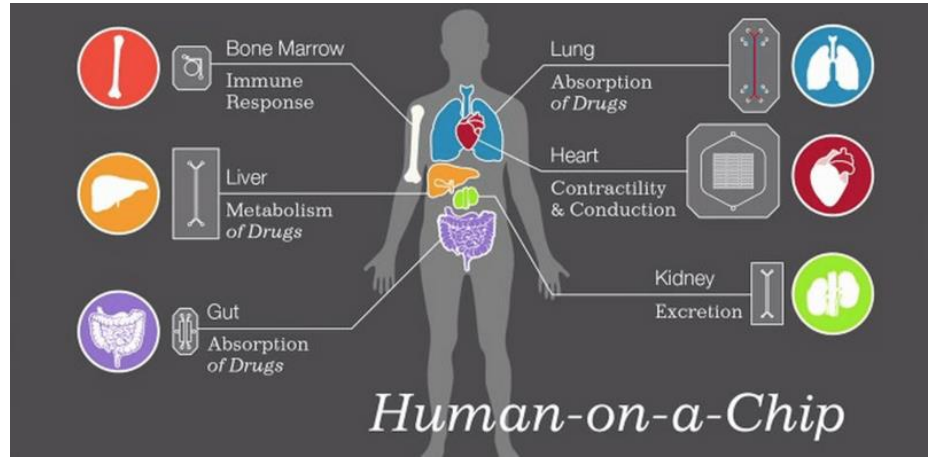


Strunge, T., Renforth, P., & Van der Spek, M. (2022). Towards a business case for CO2 mineralisation in the cement industry. *Communications earth & environment*, *3*(1), 1-14.

Selected Emerging Technologies 2022+: 8. Bioengineering & Cell Treatments

Research Topics

- **Nanomedicine-based technologies**
  e.g. novel biomarkers for the diagnosis and treatment of Alzheimer's disease
- **Single-cell sequencing (SCS)**
  e.g. unprecedented high resolution for early detection
- **Organ-On-Chip / Tumor-On-Chip**
  e.g. in vitro organ/tumor models are rapidly advancing cancer research



https://www.elveflow.com/microfluidic-reviews/organs-on-chip-3d-cell-culture/organs-chip-review/

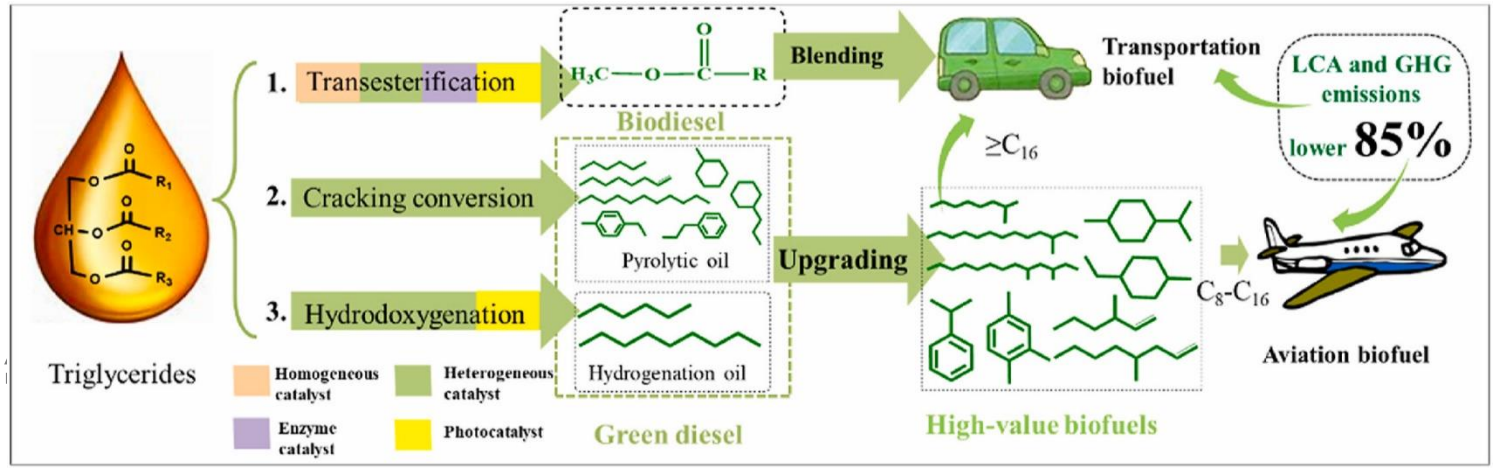
Selected Emerging Technologies 2022+: 10. Alternative Fuel & Energy Techn.

Research Topics

- **State-of-the-art review for biofuel production**
  e.g. triglycerides

Other Research Topics

- **Advancements of combustion technologies**
  e.g. ammonia-fuelled engine or gas turbine
- **New frontiers in gas storage technology**
  e.g. gas hydrates > methane

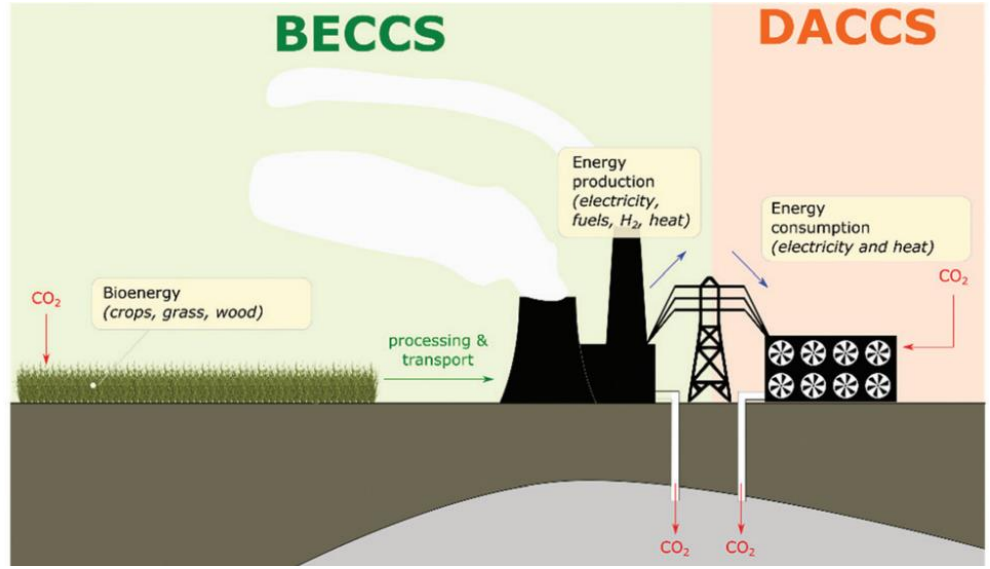


Long, F., Liu, W., Jiang, X., Zhai, Q., Cao, X., Jiang, J., & Xu, J. (2021). State-of-the-art technologies for biofuel production from triglycerides: A review. *Renewable and Sustainable Energy Reviews*, *148*, 111269.

Selected Emerging Technologies 2022+: 11. Climate & Zero Emission Techn.

Research Topics

- **Industry Transformation - Reduction of environmental pollution**
  e.g. heavy industry (aluminum in china)
- **CO2 emission capturing technologies**
  e.g. bioenergy with carbon capture and storage (BECCS) and direct air carbon capture and storage (DACCS) > CO2-Mineralization
- **CO2 emission reduction technologies**
  e.g. sustainable aviation fuels (SAF)



Creutzig, F., Breyer, C., Hilaire, J., Minx, J., Peters, G. P., & Socolow, R. (2019). The mutual dependence of negative emission technologies and energy systems. *Energy & Environmental Science*, *12*(6), 1805-1817.

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Selected Emerging Technologies 2022+: Conclusion

Emerging Technologies

- **20 different emerging technologies frontiers were identified in 2022**
- **Bibliometric Big-Data-Analytics are suitable for discovering new groundbreaking technology trends**
- **Research frontiers provide clues to emerging technologies and upcoming innovations**

Deep Dive

- **Synthesis by Green Methods can replace pure chemical synthesis, reduce costs and, impact the environment positivly**
- **Thermal energy storage (TES) technology is playing an increasingly important role in solving the energy crisis**
- **Bioengineered microdevices (Tumor-On-Chip) enhance and will become powerful enablers for medical research**

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Why Innovation Really Matters
Innovative?

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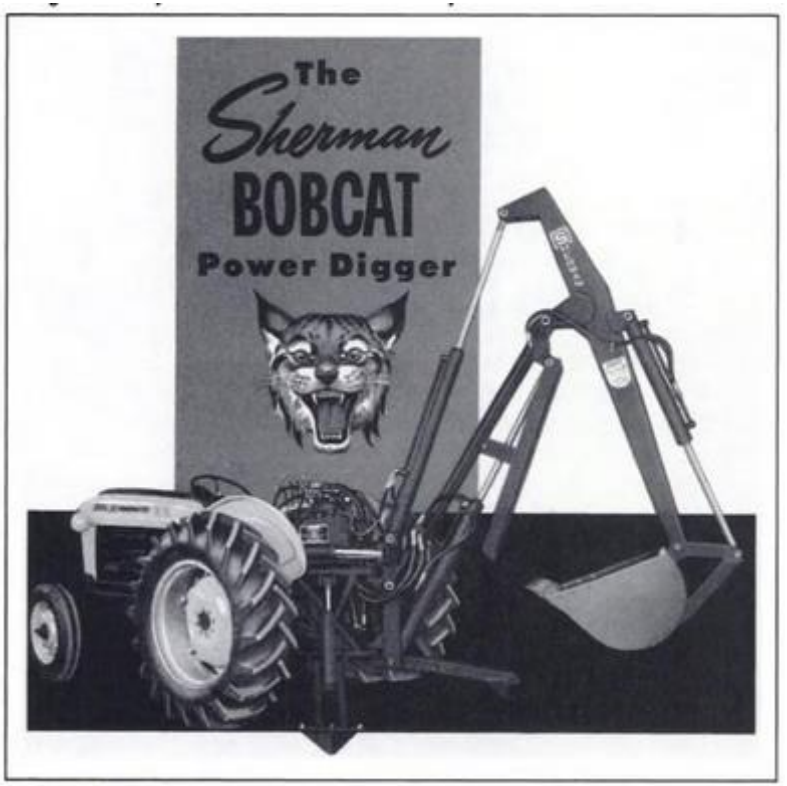
Why Innovation Really Matters
Innovative?



Why Innovation Really Matters

Innovative?

Why Innovation Really Matters
Innovative?

Show 20 entries Search:

Rank	Country	Score	Income Group
1	Switzerland	66.1	High
2	Sweden	62.5	High
3	United States of America	60.6	High
4	United Kingdom	59.8	High
5	Netherlands	58.8	High
6	Denmark		
7	Finland		
8	Singapore		
9	Germany		
10	South Korea		
11	Hong Kong, China	54.2	High

- **Switzerland:** First in Knowledge Creation, second in Global Brand Value
- **U.S.:** First in Entertainment and Media, Computer Software Spending, Intellectual Property Receipts
- **China:** First in Patents Registered
- **Vietnam:** Second in High-Technology Net Exports
- **India:** First in Information and Communication Technology Services Exports
- **Tanzania:** 23rd in Printing and Other Media

Why Innovation Really Matters
Empirical Research

– Research in technology and innovation management

Why Innovation matters?

Particularly innovative companies with efficient innovation processes are more successful and have much better share price development

HARVARD BUSINESS SCHOOL

“Wall Street doesn’t understand Innovation!”

Christopher Malloy

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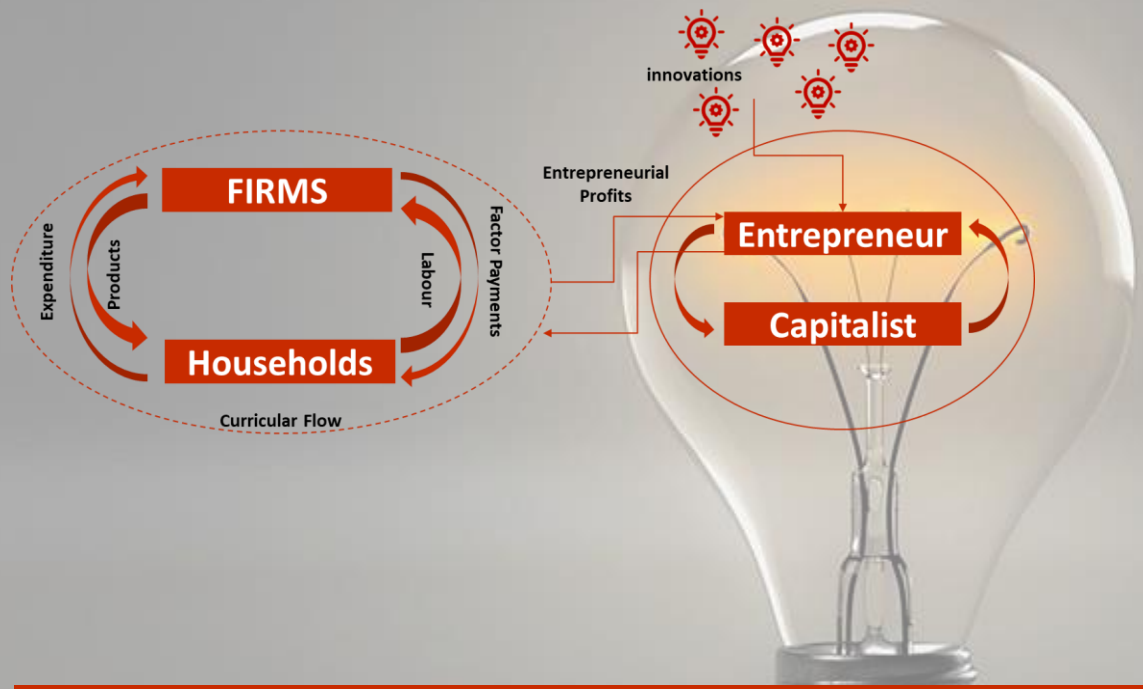
Why Innovation Really Matters

Why Innovation Really Matters

Innovation and Growth

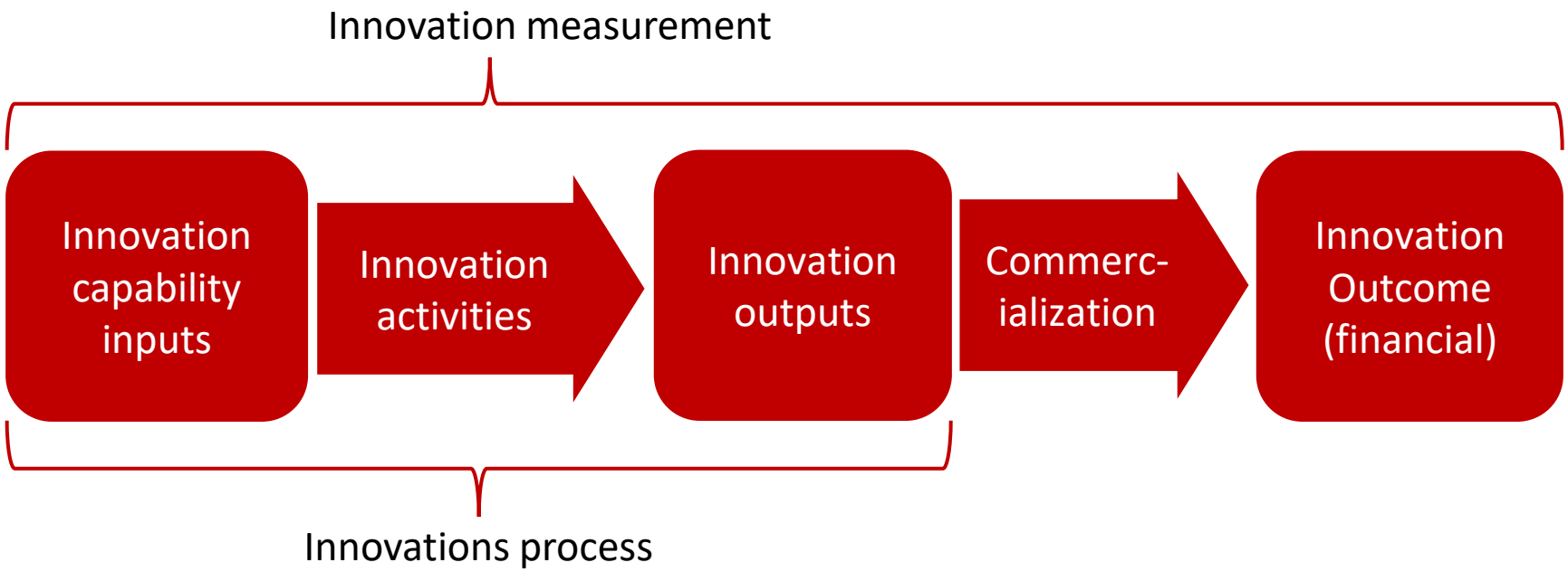
Why do innovations exist at all?



Since Schumpeter (1912; 1942) introduced his theories about creative destruction and innovation, there has been a common understanding that innovation is a significant driver of growth and prosperity (Kogan et al., 2017; Schubert and Simar, 2011).

Innovation Efficiency

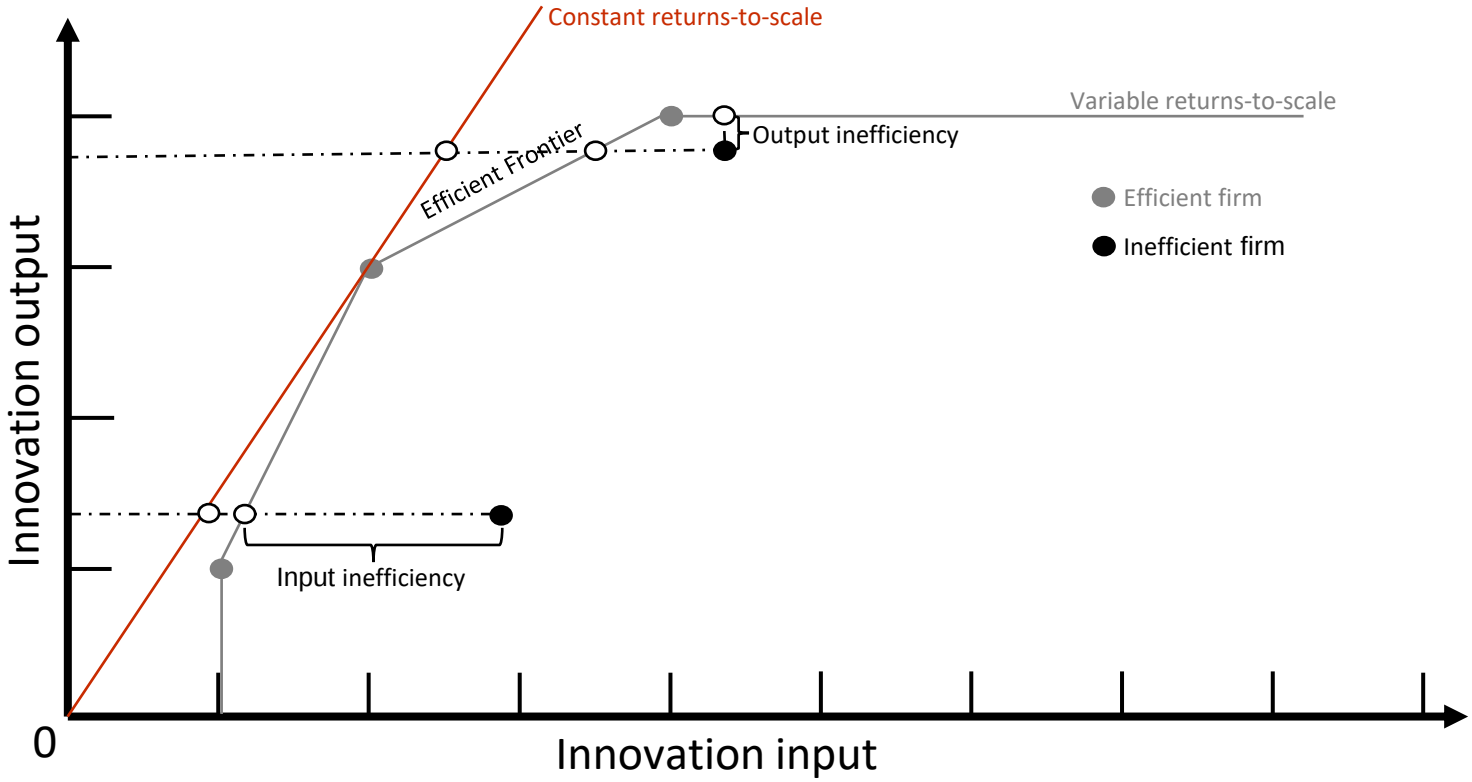
How can innovation capability be measured in the first place?



Source : Bayrle (2021)

Innovation Efficiency

How to find innovation-efficient companies?



$$\max_{v,u} \textbf{innovation efficiency}_o = \max_{v,u} \frac{\sum_{r=1}^{s} u_r \textbf{innovation output}_{ro}}{\sum_{j=1}^{m} v_j \textbf{innovation input}_{jo}}$$

Source : Cooper et al. (2007)

Innovation efficiency and firm performance
What do innovation-efficient companies achieve?

Innovation-efficient companies show higher growth than innovation-inefficient companies.

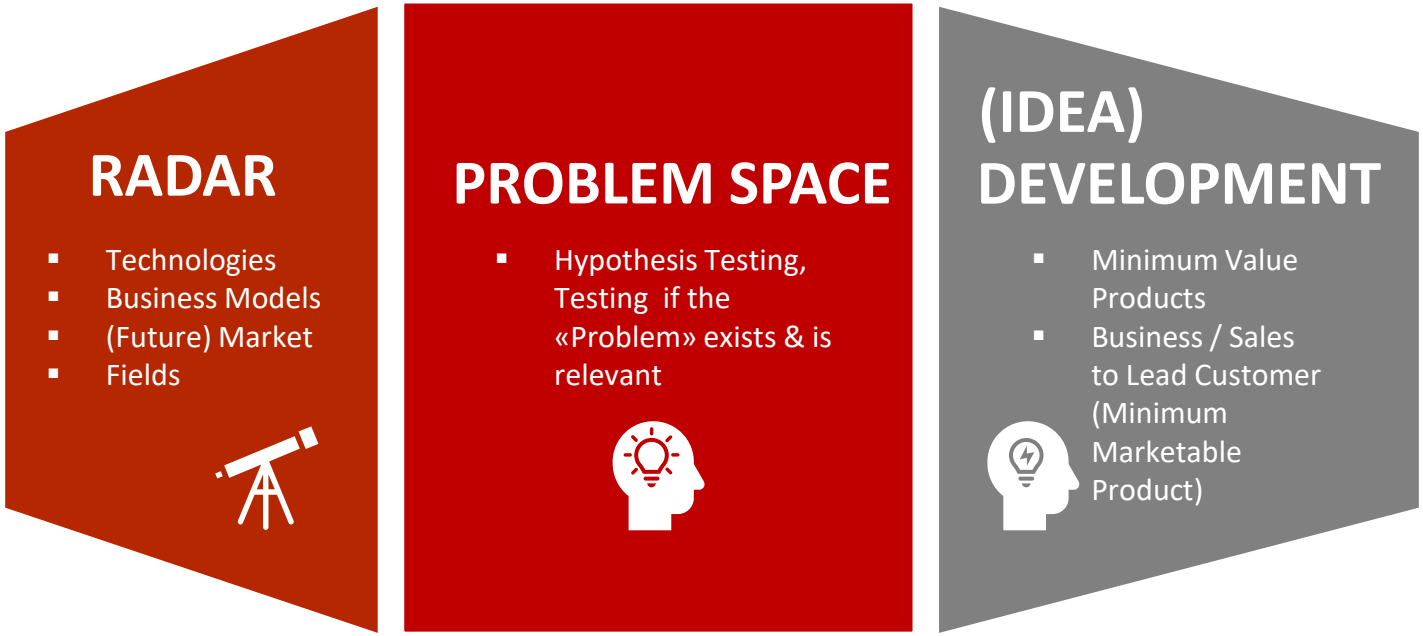
Innovation-efficient firms show higher returns on capital than innovation-inefficient firms.

Source: Bayrle (2021), Cruz-Cázares et al. (2013)

Innovation Leaders

What do innovation leaders do differently? Like Inficon, for example?

Current research findings on innovation leaders by Arabella Stock and Prof. Leo Brecht.



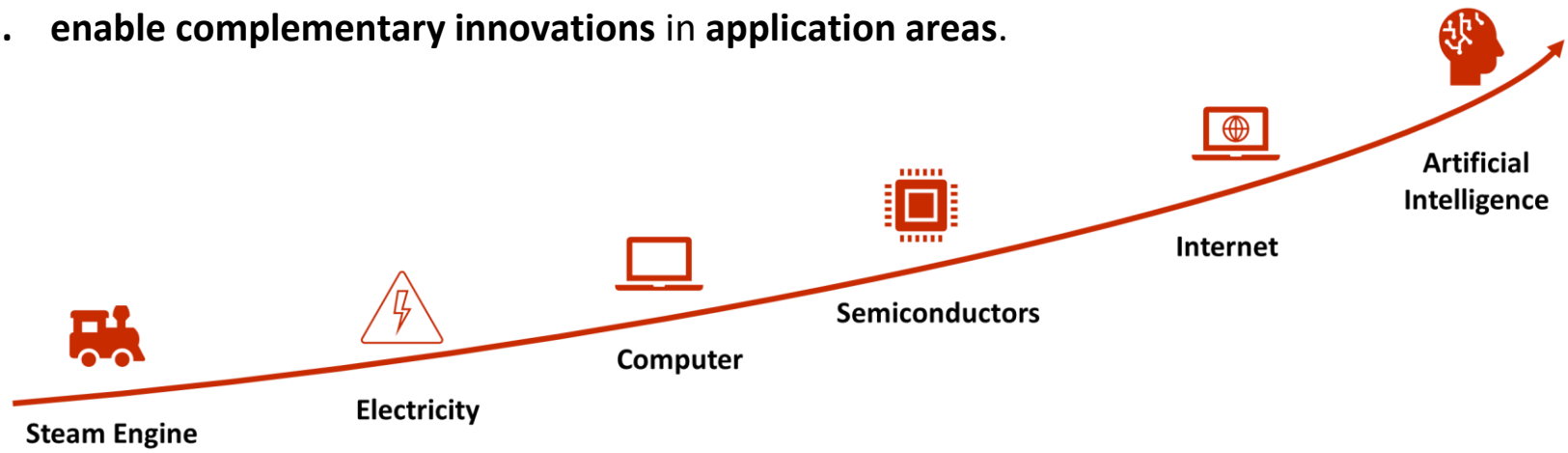
- «Timing! (Be ready.)»
- «Rather make a wrong decision than none at all.»
- «Trial and error beats understanding.»

Why Innovation Really Matters

General Purpose Technologies
What makes a technology ubiquitous?

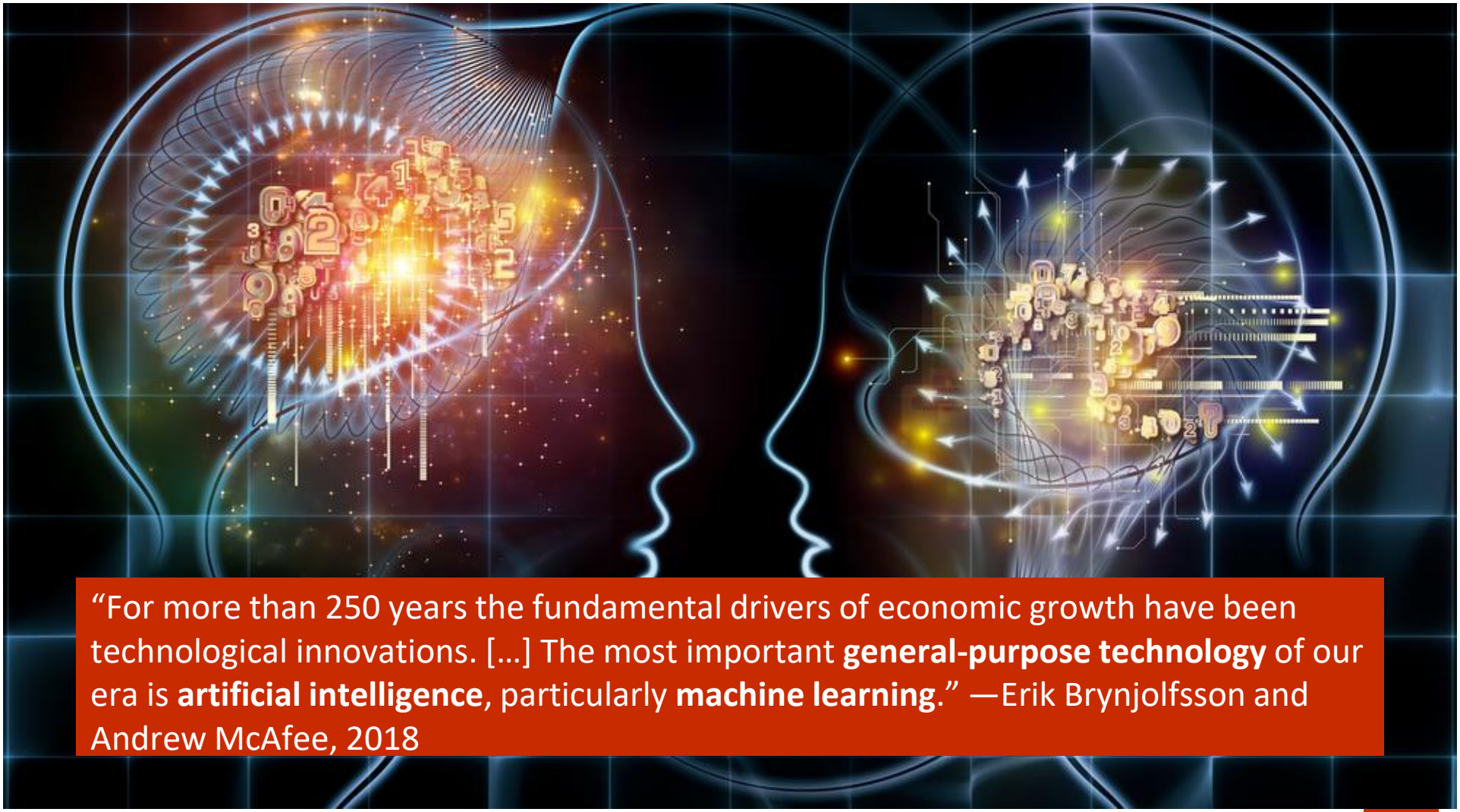
Bresnahan and Trajtenberg (1995) introduced the important concept of **general-purpose technologies (GPTs)**, which they characterized by three features (see also Teece, 2018):

1. **GPTs** are **ubiquitous**, i.e., **widely used**;
2. can be **continuously improved technically**; and
3. **enable complementary innovations** in **application areas**.



In other words, GPTs impact the entire economy, **get even better over time,** and **attract further innovation** because the invention triggers discoveries in one area and creates opportunities in others

General Purpose Technology: Artifical Intelligence



"For more than 250 years the fundamental drivers of economic growth have been technological innovations. […] The most important **general-purpose technology** of our era is **artificial intelligence**, particularly **machine learning**." —Erik Brynjolfsson and Andrew McAfee, 2018

Enabling Technologies in the Digital Age

What do enabling technologies facilitate?

The threshold for a GPT is very high, but there's a similar category, **enabling technologies**, that can be thought of as junior GPTs, meeting criteria (2) and (3), but not necessarily having measurable economy-wide impacts.

Wireless communications	Cloud Computing	Additive Manufacturing	Blockchain
Improvements in the transmission of digital mobile data over the "generations" of the standard - from 2G in the early 1990s to the current 5G - are enabling new types of value creation.	Cloud computing is a form of on-demand and flexible use of IT services. These are provided in real time as a service via the Internet and billed according to use.	Additive manufacturing is a process of building complex three-dimensional parts in a layer-by-layer manner from their respective CAD models.	Blockchain is a decentralized database where there is no central trusted entity that manages and stores the database but is distributed across a network and uses a consensus mechanism to verify transactions.

Source: Teece (2018), Salunkhe und Berglun (2022)

Innovation and Technology

What innovations are enabled by GPTs like AI?

Produktinnovation

Serviceinnovation

Prozessinnovation

Organisationsinnovation

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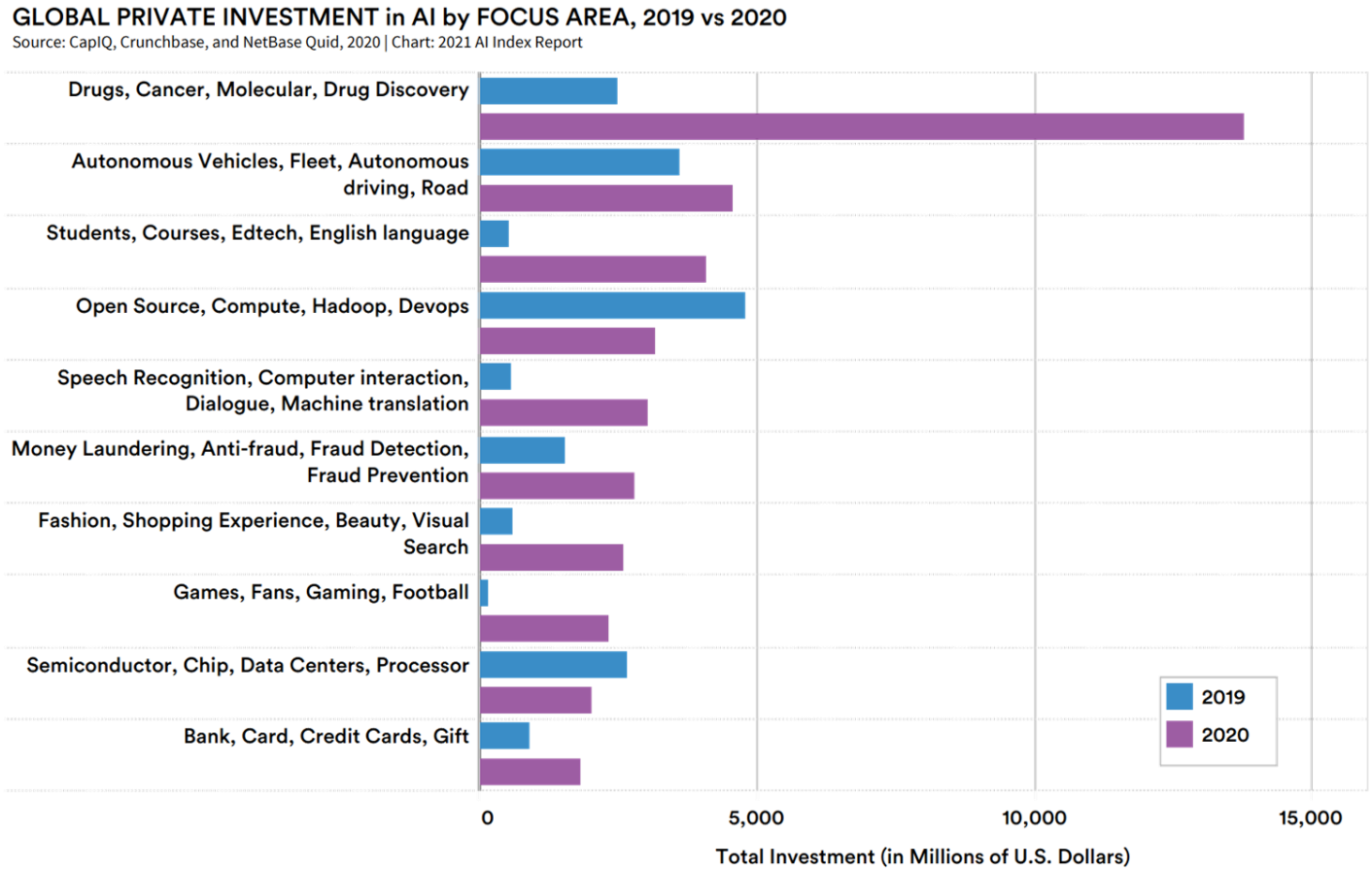
General Purpose Technology: Artifical Intelligence

Is AI really a GPT?



Source: Artificial Intelligence Index Report 2021

Innovation, Technology, and Inflation

How is innovation related to technology and inflation?

Influencing technological and innovation factors to date:

- **Internet**
- **Communication technology**
- **Automation**
- **Technology**
- **Big Data**
- **Smartphone**

Innovation, Technology, and Inflation

How does technology affect productivity and inflation?

Technological substitution

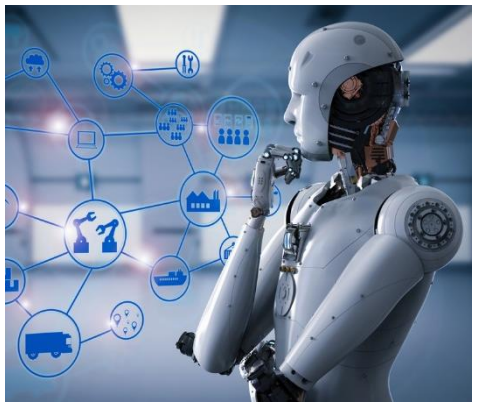
Human labor is **replaced** or **supplemented** by **technology**, thus **avoiding price increases**. **Additive manufacturing**, for example, **promises great potential** here.

Accelerated change

Unfavorable demographic developments can be offset by **technological innovations**.

Artificial intelligence

Artificial intelligence (AI) has the characteristics of **general-purpose technologies (GPTs).** Like other GPTs (e.g., the Internet), AI has the potential to be an important driver of productivity.



Productivity effects

The experience of the three industrial revolutions suggests that we can expect **productivity effects from new technologies.**

Technologies that can have a deflationary effect

Which emergent technologies have a deflationary effect?

Technology for use in care

- The future potential of technology for care service through telemedicine.
- The use of humanoid robots to care for and entertain elders.
- The increasing sophistication of artificial intelligence and robotics could take some of the work out of doctors

Developments in the biotech sector

- In the treatment of diseases that become more prevalent as we age, developments in the biotech sector offer new opportunities to reduce future costs and increase treatment efficacy.
- Among novel nucleic acid therapies, messenger RNA (mRNA) technology offers a variety of opportunities to develop therapies beyond vaccines.

Green energy developments

- Already, demand for electric vehicles is driving up the prices of raw materials such as copper, lithium, nickel and cobalt.
- The key, of course, is the broader time horizon. A rapid transition to a cleaner world will create some inflationary pressures, but in the long run it will dramatically reduce the cost of climate-related disasters.

Other important areas of innovation

- 3D-printed homes are already on the rise and could soon be built more cost-effectively.
- A variety of innovations, ranging from self-driving tractors to artificially produced meat, promise radically cheaper food supplies.

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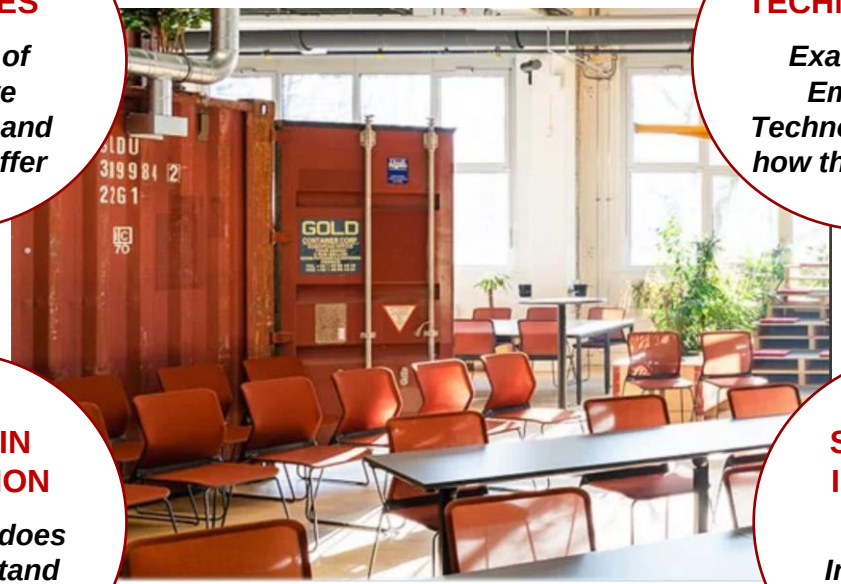
Introduction Innovation Booths

INNOVATIVE COMPANIES

Examples of Innovative Companies and why they differ



EMERGING TECHNOLOGIES

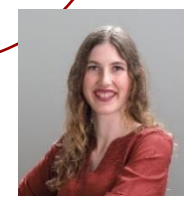
Examples of Emerging Technologies and how they develop

INVEST IN INNOVATION

Wall Street does not understand Innovation - yet

SCIENCE ON INNOVATION

Findings on Innovation and Performance



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EmTech Summit

UNIVERSITÄT LIECHTENSTEIN

05 MAY
17:00 – 19:30

TECHNOPARK LIECHTENSTEIN

Summit on Emerging Technologies

In several booths we present most innovative companies, learn about emerging technologies, understand why innovation is relevant for investors and discuss latest findings from innovation research. And finally get inspired by our special guest speaker from Inficon.

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17:40	Outlook 2022+: **Emerging Technologies**	*Dr. Kauffeldt*
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> 19:30	**Networking and Apero riche**	

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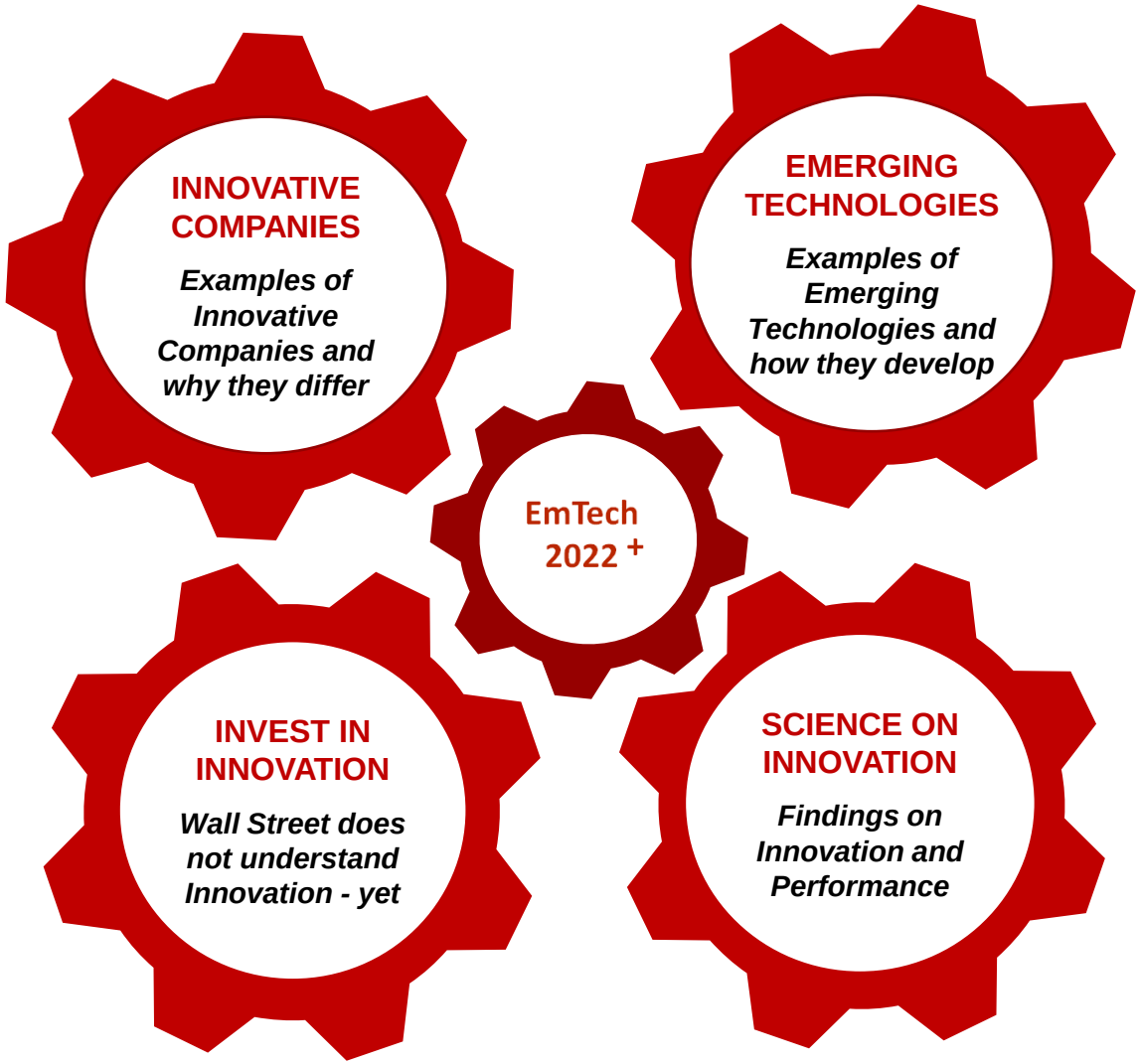

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Summary and Closing

Innovation Efficiency: Case Studies on Alpine Rhine Valley Companies

Measured Innovation Efficiency in the Alpine Rhine Valley

Exploitative IE	**Exploitative & Explorative IE**
«innovation inefficient»	**Explorative IE**

Qualitative Insights on Innovation Efficiency Based on European Industrial Companies

Examples:

- Long-term orientation
- Problem vs. Solution Space in the Innovation Process
- Role of Communication

In-Depth Knowledge through Case Studies with Companies within the 4 Quadrants:

? Interviews with different Levels and Roles (e.g. CTO, Head of R&D or Innovation Manager, Product Manager, Sales/Marketing)

? Documentation

Learning – MBA T&I

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Studium | Weiterbildung | Forschung | Transfer | Universität | Karriere

Themen | Programme | Veranstaltungen | Gut zu wissen | Tagungen

uni.li › Weiterbildung › Themen › Weiterbildung Entrepreneurship › MBA Technologie & Innovation

MBA Technologie & Innovation

Liechtenstein und das St. Galler Rheintal sowie die angrenzende Ostschweiz, Vorarlberg, Bayern und Baden-Württemberg sind geprägt durch technologieorientierte Unternehmen mit enormer Innovationskraft und internationaler Ausstrahlung. Knapp 40 % der Wirtschaftsleistung des Fürstentums entfallen auf den Industriesektor – fast doppelt so viel wie in den USA.

Innovationen erhalten Wettbewerbsfähigkeit

Innovationen spielen in den technologieorientierten Unternehmen unserer Industrieregion eine entscheidende Rolle zur nachhaltigen Sicherung der Wettbewerbsfähigkeit. Dies gilt insbesondere in Zeiten, in denen die Euro-Franken-Parität einen Wettbewerbsnachteil für die durchwegs stark exportabhängige Liechtensteiner und Schweizer Industrie darstellt. Nur durch stetige Effizienzsteigerung in der gesamten Wertschöpfungskette und ein kontinuierliches Bestreben, den Kundennutzen der angebotenen Produkte und Dienstleistungen zu erhöhen, kann die Wettbewerbsfähigkeit erhalten werden. Beides ist nur durch Innovationen möglich. Entsprechend kommt unternehmerischem Umgang mit Innovationen in allen Unternehmen eine Schlüsselrolle zu. "Innovation" umfasst dabei sowohl die technische Erfindung als auch deren Umsetzung im Markt. Dies kann in Form neuer Produkte, neuer Dienstleistungen oder neuer Geschäftsmodelle umgesetzt werden. "Innovatives Unternehmertum" kann demnach als ganzheitliches unternehmerisches Handeln verstanden werden, das die Erhöhung des Kundennutzen in den Fokus stellt.

Mehr dazu

- Inhalte
- Durchführung
- Zulassung & Bewerbung
- Gebühren & Kosten

Summary and Closing - Virtual Event

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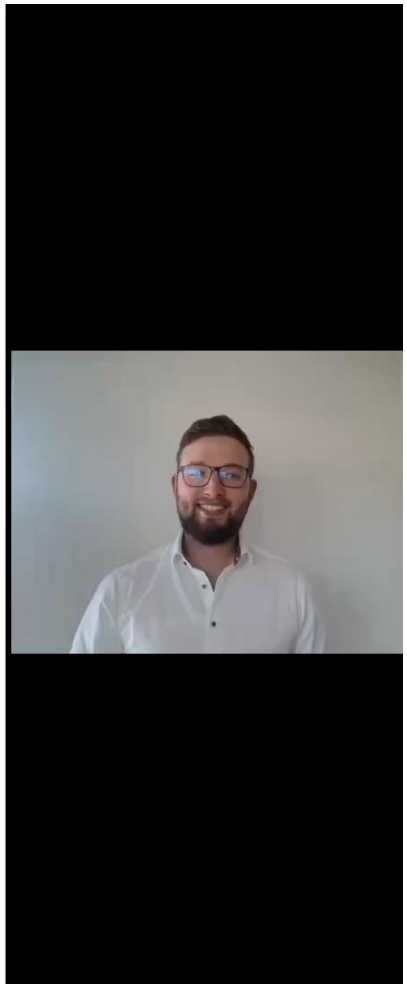

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SCAN ME

You are cordially invited to our virtual event.

Event Link:
https://etrainplatform.com/event/emtech-summit-2022-liechtenstein

You can find a full instructional video here:

Link

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Professor Dr. Leo Brecht
Institute of Entrepreneurship
Chair of Entrepreneurship and Technology

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