



# Promotion Instruments for Startups and Startup Energy Program Bavaria

### Webinar "Emprendimiento en Energía", 28.09.2021

### **Maximilian Irlbeck**

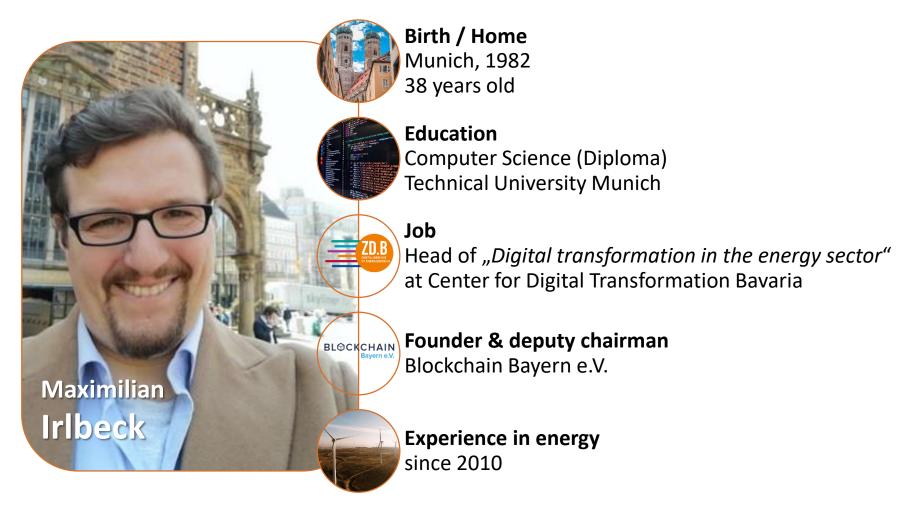
Head of "Digital Transformation in the energy sector" Center for digital transformation Bavaria Bayern Innovativ GmbH







## **About me**







## About Munich, capital of Bavaria, my hometown

### Munich is:

- Known for beer gardens, Oktoberfest, FC Bayern München, Marienplatz, Frauenkirche, Olympic center, Bavarian tradition, Bavarian beer, Brezn, Weißwurst ...
- #1 Hub in Europe for digital transformation
- One of the best locations for startups in Europe
- Location for Europe's leading founders festival
   Bits & Pretzels



Image source: N-TV

# Impression from **Munich**: Surfers at *Eisbachwelle*







# **Impressions from Munich**









# Agenda

- -0
- 5 big challenges for startups in the energy sector
- Our services at Bayern Innovativ for startups
- Energy Start-up Bavaria
   Our international startup competition in Germany, Austria and Switzerland
- About Bayern Innovativ and The Center for Digital Transformation Bayaria



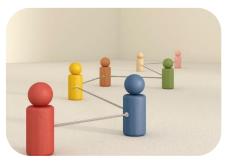








**Funding** 



Market access



Strategic Partnerships



Regulatory framework



Mindset















**Funding** 

**Market access** 

Strategic Partnerships

**Regulatory framework** 

Mindset

- Startups often need **huge investments over a long period of time** energy is a *capital-intensive* business
- (Regulatory) differences between power systems worldwide make scale-up of business models difficult
- ROI often less attractive than in other markets
- Lack of investors specialized in the energy sector
- Risk aversion in investments in many countries, the Silicon Valley is often the only place to find investors
- Energy startups are not valued enough by most investors and experience growth problems















**Funding** 

**Market access** 

Strategic Partnerships

Regulatory framework

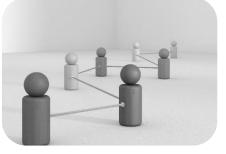
Mindset

- Energy sector is dominated by a small number of huge, often conservative players
- Existing market offers only a limited number of docking points
- Many innovative business models aren't working in the existing (more centralized) system
- Extended legal and market expertise necessary compared to other markets
- The energy sector is complicated and difficult to enter















**Funding** 

**Market access** 

Strategic Partnerships

Regulatory framework

Mindset

- The energy system is complex **strategical partnerships** are often **the only way to success** for startups
- Existing players often lack a standardized contact point for startups
- Cooperation with startups are often out-of-focus
- Inefficient misunderstandings and time-intensive research arise for start-ups while searching for strategic partnerships frustration is often a result
- Collaboration with energy startups is not part of the daily business

















**Funding** 

Market access

Strategic **Partnerships** 

Regulatory framework

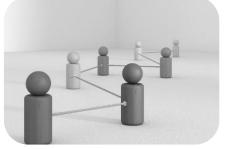
Mindset

- Existing regulatory framework is largely focused on a centralized energy system and existing players
- **Existing markets roles** do often not meet the requirements of new business models
- Lack of long-term legal security make investments in new technologies difficult
- Energy startups don't have a **lobby**
- **Political discussion** is often far away from the **actual needs** of energy startups
- The needs of new business models are not recognized by the regulatory framework















**Funding** 

**Market access** 

Strategic Partnerships

Regulatory framework

**Mindset** 

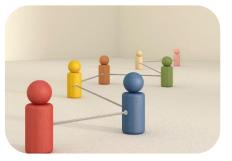
- Energy companies are often less dynamic and more bureaucratic than startups
- Energy system is dominated by long amortization periods
- The typical mindset often is risk averse, self-related and long-term focused
- Startups clash with the traditional industry with their culture of a lean, dynamic and agile mindset
- > There is a huge mindset gap between the energy sector and energy start-ups





# 5 big challenges for energy startups











**Funding** 



**Market access** 

The energy sector is difficult to enter

Strategic Partnerships

Not part of daily business

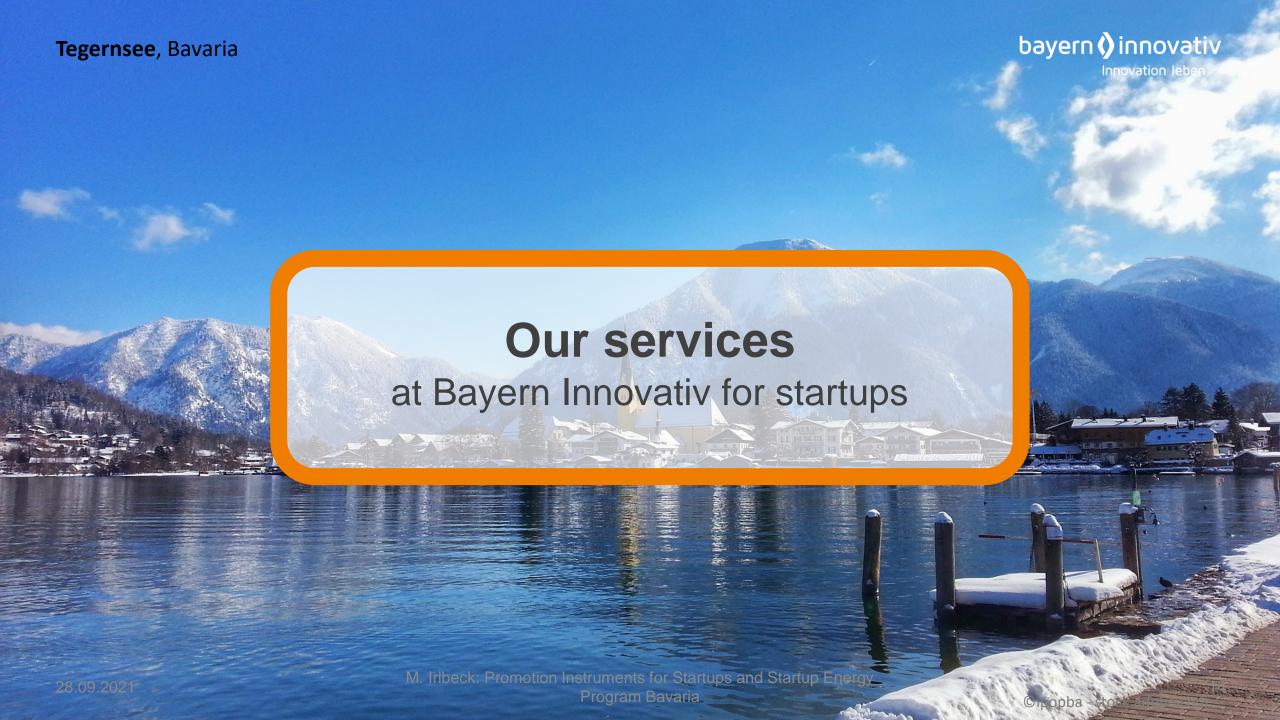
Regulatory framework ~

New business models are not recognized

**Mindset** 

Huge gap between energy startups and energy sector

Energy startups often need *more support* to be successful.







# The concept: Start-up guide Bavaria

On behalf of the Bavarian State Ministry for Economic Affairs, state development and energy / Gründerland Bayern.

### Mission:

We inform entrepreneurs of all industries and in every startup phase about suitable offers in Bavaria, Germany and at EU level.

### **Actions:**

- Hotline for startups for consulting and guidance
- Team of 5 Bayern Innovativ employees as leaders
- Connection to all services offered in Bayaria
- Connection to all industries in Bavaria
- Connection to all entrepreneurship centers in Bavaria







# Services at Start-up guide Bavaria

(free of charge)

**Funding** 

Business angels Investor networks Loans from LfA, KfW, ...

Pre-founding coaching Coaching at Bayern Innovativ

Coaching

**Promotion** 

Advice on funding programs State, federal and EU level

Access to networks funded by the Free State of Bavaria (e.g. Bayern Innovativ, Invest in Bavaria)

Networking

Consulting

Entrepreneurship Centers at Universities, IHK, HWK, BayStartUp

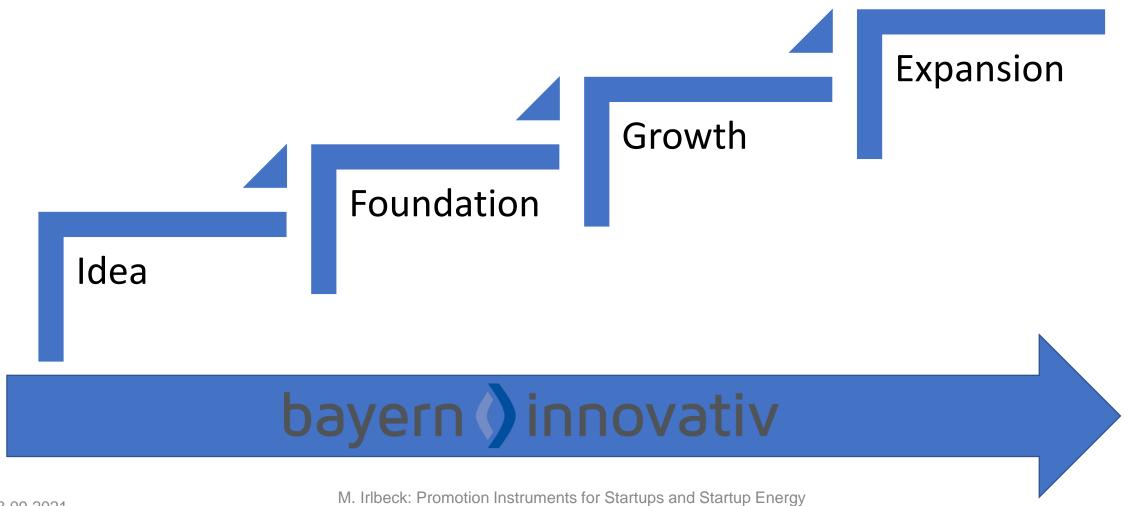
Incubators
Business promoters
Regional institutions

Infrastructure





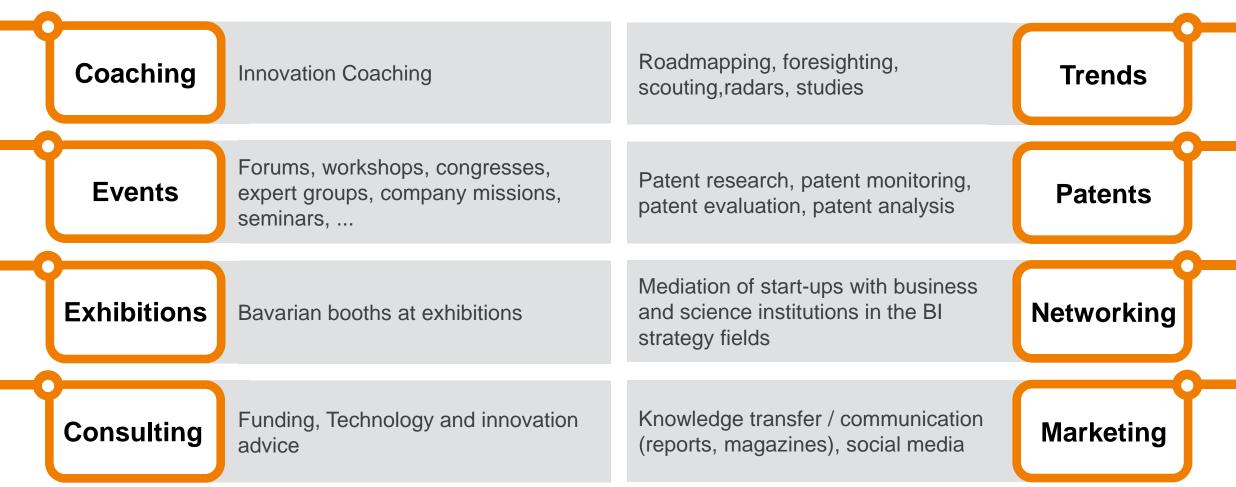
# **Process for startups with Bayern Innovativ**







# Additional services for startups at Bayern Innovativ



M. Irlbeck: Promotion Instruments for Startups and Startup Energy Program
Bayaria



# **Energy Start-up Bavaria**

Our international startup competition in Germany, Austria and Switzerland







# **About Energy Start-up Bavaria**

### Who can apply?

- Companies from Germany, Austria and Switzerland
- Founded in the last 4 years or in the founding process
- Motivation for and relation to Bavaria's energy future needed as part of the application

### Why apply?

- Award money: 30.000 Euro
- Direct access into the energy sector
- Contact to investors, mentors, funds and startup centers
- Networking and matchmaking actions
- Promotion of the TOP 10 to more than 10.000 contacts in Bavaria and presentation in a prestigious event
- The TOP 3 can call themselves "Energy Start-up Bavaria" and have the chance to meet & discuss their issues directly with the Bavarian Minister for Economy



Bavaria's energy future.

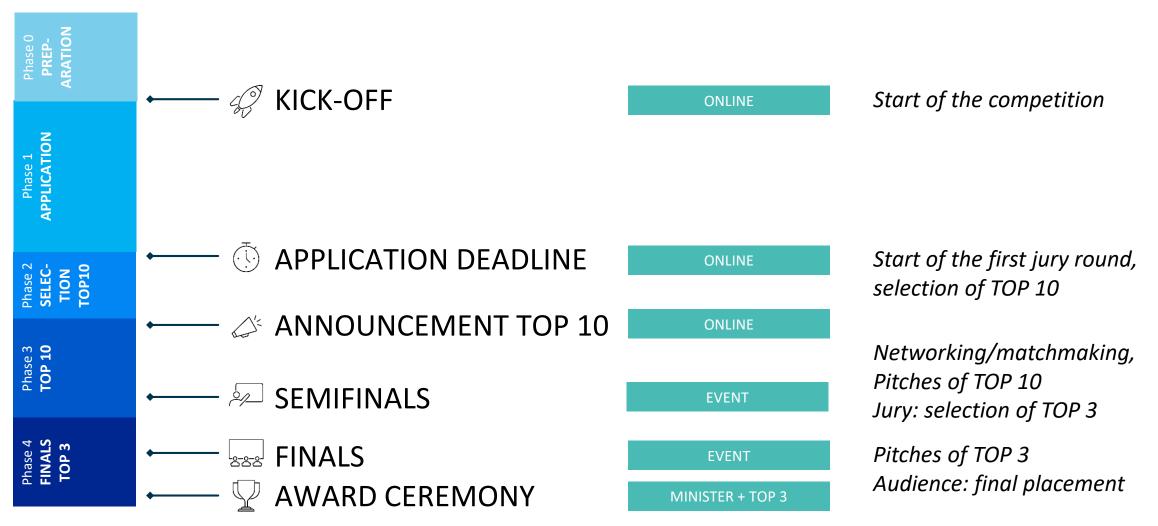
Connect. Found. Start.

www.energie-startup.bayern (German)





# **Application process**





28.09.2021



# History: 2016 - 2022

- Initial idea (2016):
  - · Dr. Franz Zöchbauer, Verbund AG
  - Maximilian Irlbeck, ZD.B
- Organizing institutions:
  - Bayern Innovativ GmbH
  - Center for Digital Transformation Bavaria
  - Bavarian Ministry for Economy
  - BayStartUP Bavarian startup agency
  - VBEW Association of the Bavarian Energy and Water Industries
  - Bayernwerk AG Biggest Bavarian distribution system operator (DSO)
  - Verbund AG Biggest Austrian energy supplier, biggest Bavarian hydro power supplier















### All Award winners so far

#### 2016

- **1. Sono Motors** First mass producer of solar electric cars
- **2. Invenox** Modular connection systems for batteries
- **3. SAMAwing** Smart air guiding for dry cooling towers

#### 2018

- 1. Turbonik Self-generated electricity by a micro steam turbine
- **2. ChargeX** Multiple sockets for charging stations
- **3. ENER-IQ** Software for intelligent heating boilers

### **2020 (Three equal winners)**

- Enmacc Independent and innovative trading platform
- gridX Platform to connect all decentralized energy ressources
- VoltStorage First mass redox-flow battery for household





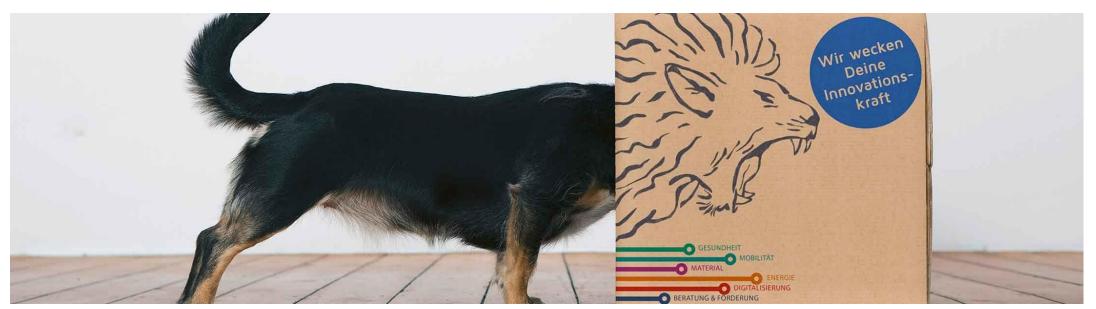




# **About Bayern Innovativ**



- Innovation Agency of the Free State of Bavaria
- Bayern Innovativ stands for knowledge management, as well as acceleration of innovations and gives the right impulses.
- Our vision is a Bavaria in which every viable idea and technology becomes an innovation.
- **Founded** in 1995 by Bavarian politics, economy and science
- Approximately 270 employees in Nuremberg, Garching (near Munich) and Augsburg







# **About ZD.B - Center for Digital Transformation Bavaria**



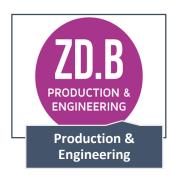
























Part of bayern () innovativ

An Initiative of







# My team

### Platform "Digital transformation in the energy sector"





Head
Maximilian Irlbeck



Project organisation
Simone Völker





Projectmanager MEMAP Lea **Schumacher** 





Projectmanager EASY-RES Andrea **Deisenrieder** 



Scientific Speaker Prof. Dr.-Ing. Joachim **Schenk** 



Speaker
Dr.-Ing.
Roland **Hofer** 











Living the energy transition digitally.

### **Contact**

energie.digital@bayern-innovativ.de

### Additional information (German!)

- www.bayern innovativ.de/netzwerke-und thinknet/uebersicht energie/digitalisierung-im energiebereich
- www.memap-projekt.de
- www.easyres-project.eu
- www.energieistdigital.de
- www.energie-startup.bayern

### **Newsletter (German!)**

 www.bayerninnovativ.de/seite/anmeldung-zdbthemenplattform-newsletter





# Thank you!

#### Image/video sources:

- Unsplash: nagarjun-kogaravalli, radowan-nakif-rehan, mathieu-stern, matthias-schroder, jef-willemyns, mario-dobelmann, daniel-sessler, philipp-schneidenbach
- Pexels: manuel-joseph, christopher-schultz