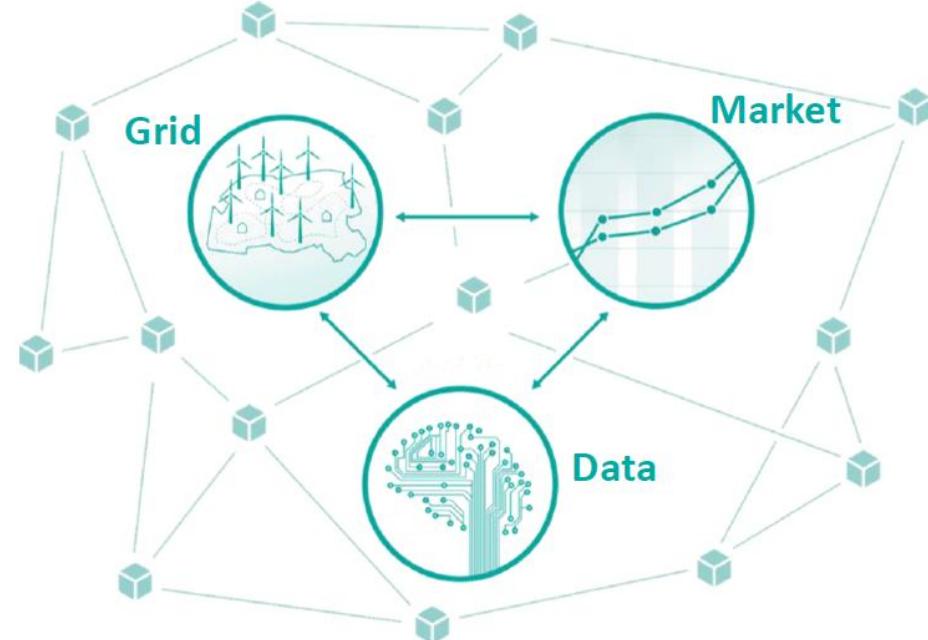
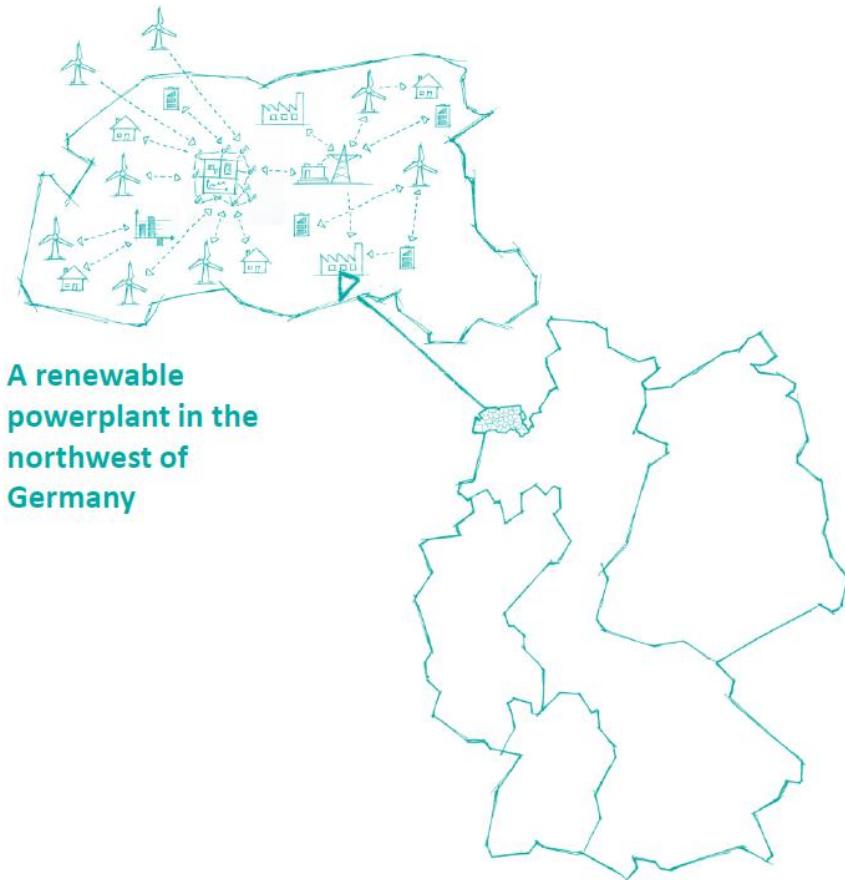




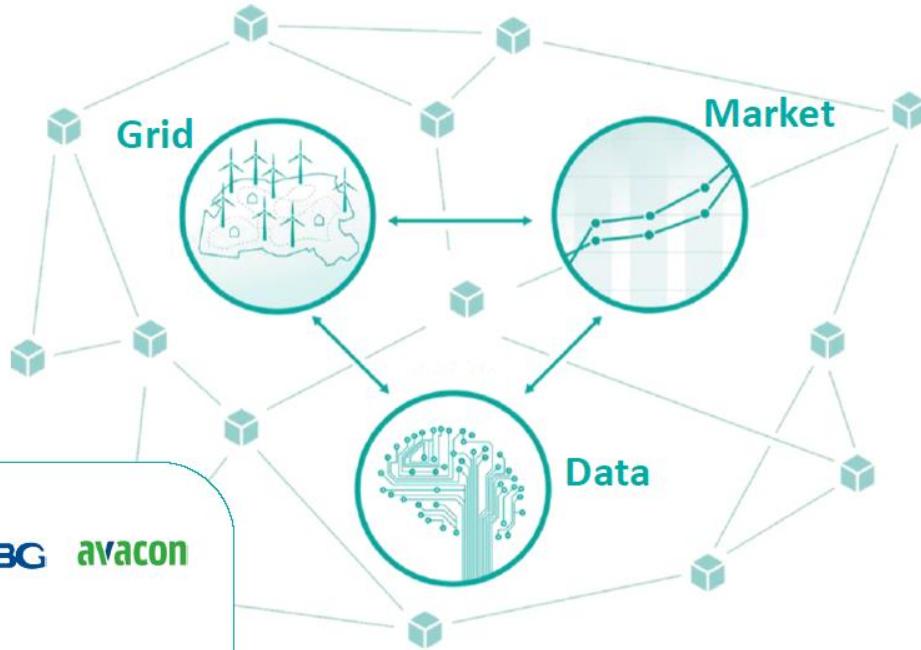
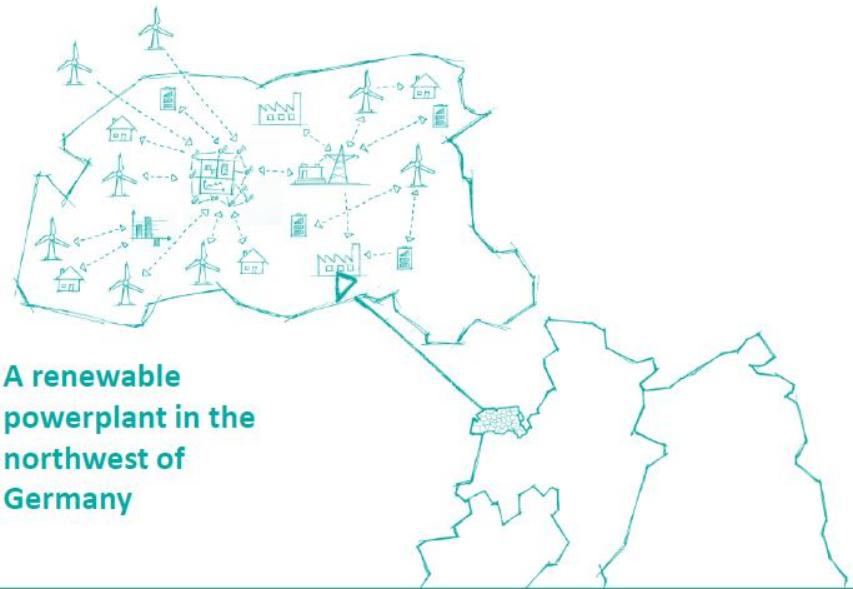
The logo features the words "UTILITY", "CROSS", and "DOMAIN" in a bold, yellow, sans-serif font. "UTILITY" is at the top left, "CROSS" is in the center, and "DOMAIN" is at the top right. A yellow lightning bolt graphic starts from the bottom left, passes through the "CROSS" text, and points towards the "DOMAIN" text. In the center, there is a yellow magnifying glass icon with a globe inside it. Below the magnifying glass, the letters "BCN" are followed by a small graphic of a television screen, and the year "19".



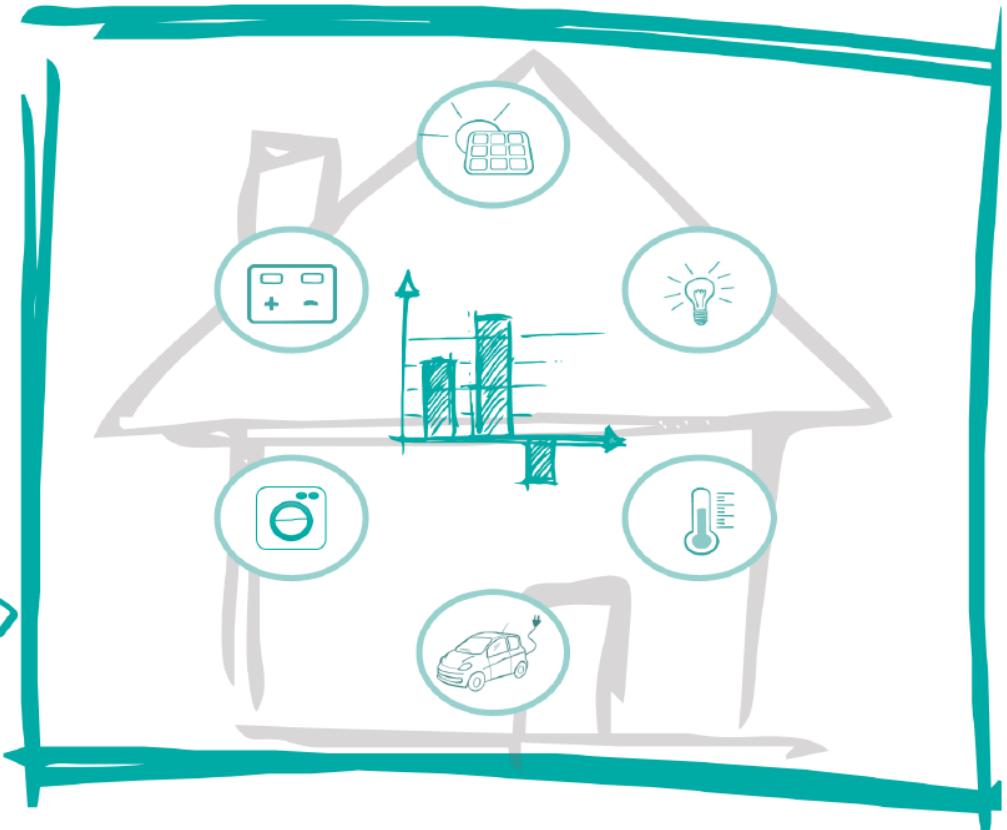
PROJECT ENERA: CREATING A DIGITAL BLUEPRINT FOR THE NEW ENERGY SYSTEM

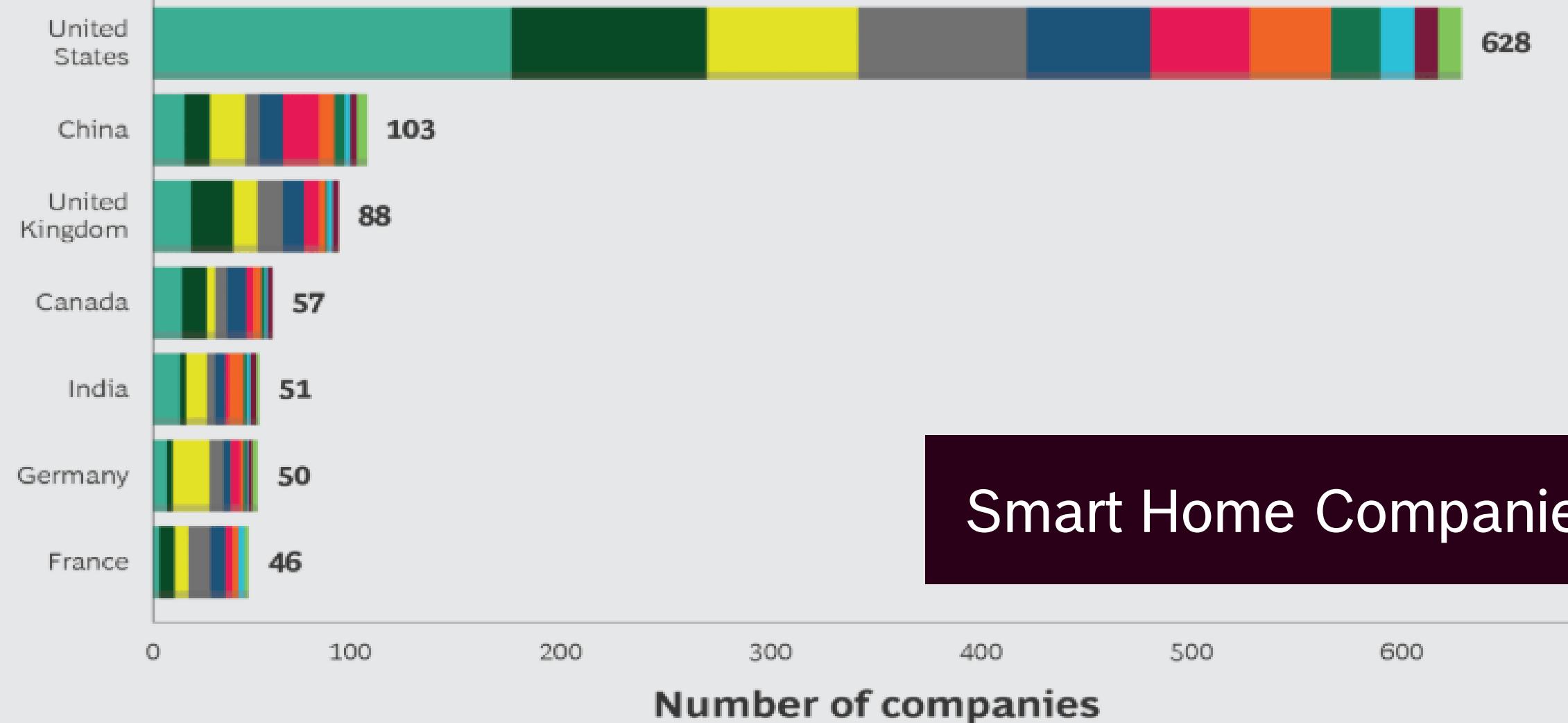


PROJECT ENERA: CREATING A DIGITAL BLUEPRINT FOR THE NEW ENERGY SYSTEM



THE CHALLENGE: DESIGN A CUSTOMER FRIENDLY DRM-PROTOTYPE TO PREVENT CONGESTIONS IN THE LV-REGIME





■ Security & safety systems
■ AI & natural language processing

■ Audiovisual
■ Connected health

■ Smart energy
■ Wearables & mobile apps

■ Software platforms
■ Smart kitchen

■ HVAC & lighting
■ Robotics



Analysts estimate that **477 Million** smart home devices will be shipped globally in 2020.



#BCX19 – UTILITY CROSS DOMAIN



@

BCX19

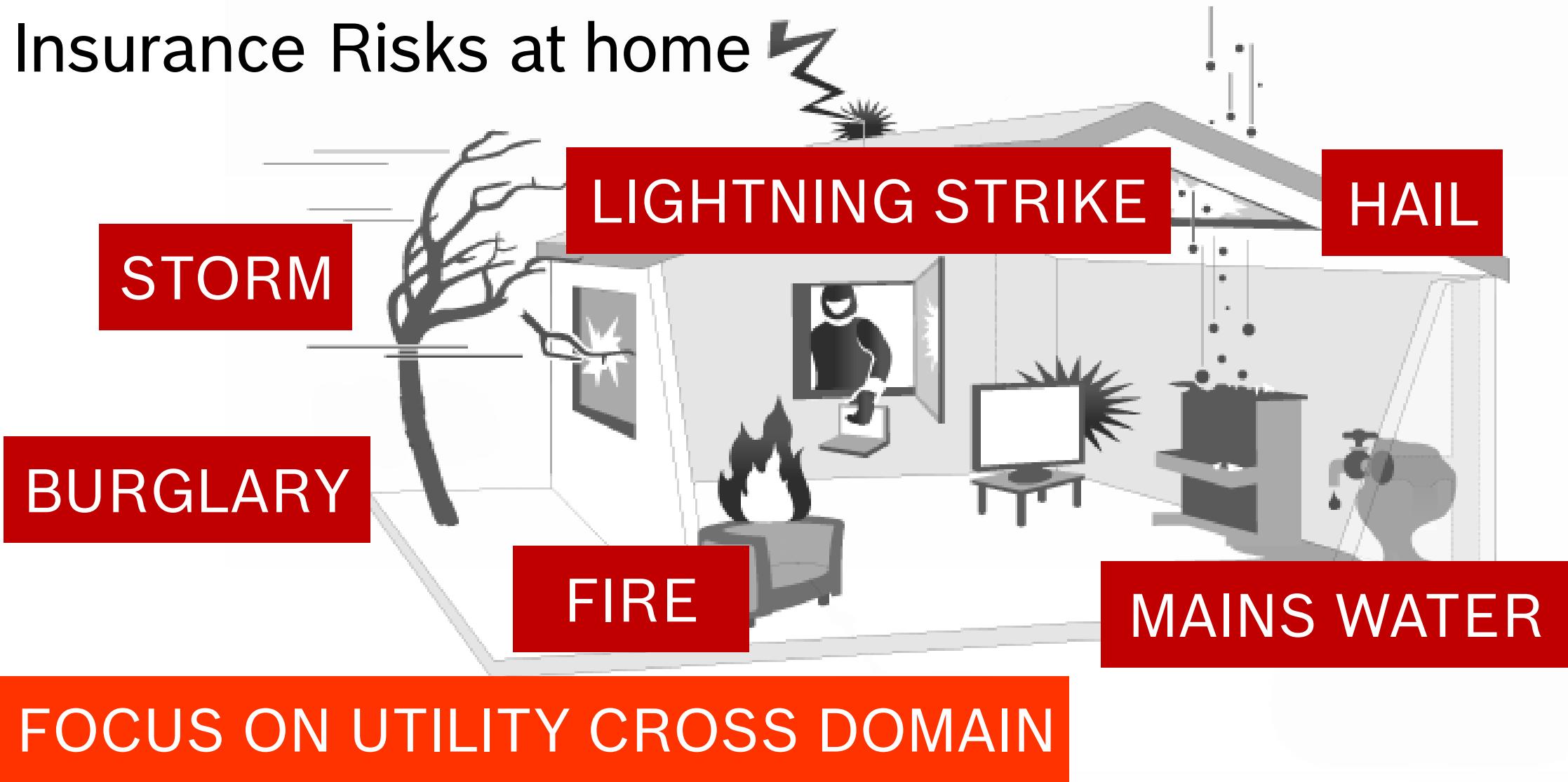
May 13-15, 2019



FIRE AND WATER PREVENTION FOR YOUR HOME

REALLY NECESSARY?

Insurance Risks at home



Facts Germany 2017/ 2018

FIRE DAMAGES AT HOME

Number of claims: ~ 230 000 p.a.

Payouts : ~ 360 Millions € p.a.



Facts Germany 2017/ 2018

MAJOR RISK FACTORS

FRIDGES OVENS

HEATERS DRYERS

DISH WASHERS



Facts Germany 2017/ 2018

WATER DAMAGES AT HOME

Number of claims: ~ 170 000 p.a.

Payouts : ~ 260 Millions € p.a.



Facts Germany 2017/ 2018

MAJOR RISK FACTORS

OLD CLEANERS WATER SPILLING

DEFECTIVE WATER PIPES





It's not just a question of money!

PERSONAL CONCERNS

CLEANING INHABITABLE

SENSTIMENTAL MEMORIES

REPLACEMENT HAZARDOUS LIFE-THREATENING

A woman and a young girl are in a modern kitchen. The woman, wearing a grey sweater, is smiling and holding the hand of the young girl, who is wearing a white t-shirt. They are standing in front of a dark grey wall with a built-in oven and a sink area. A large teal-colored pot sits on the counter. The scene is well-lit, creating a warm and protective atmosphere.

Protect your home with smart solutions

BE SAFE AND HAPPY

HOW TO PROTECT YOUR BELOVED?

Brief: Fire & Water Prevention

Prevent them from coming!



Save
€360mio. on home fires
€260mio. on water leaks



**Brief:
Demand
Response**

**Enjoy
Steady
Supply**

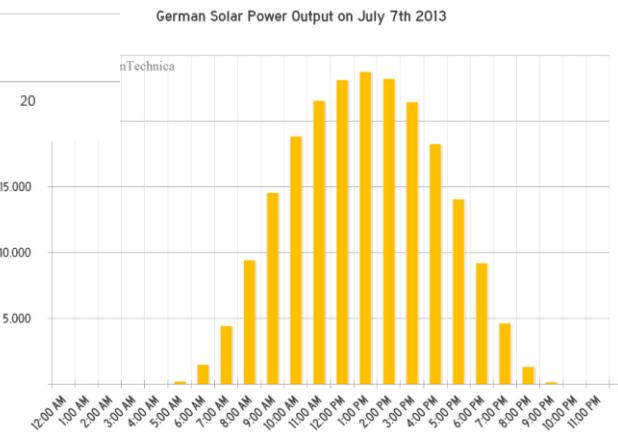
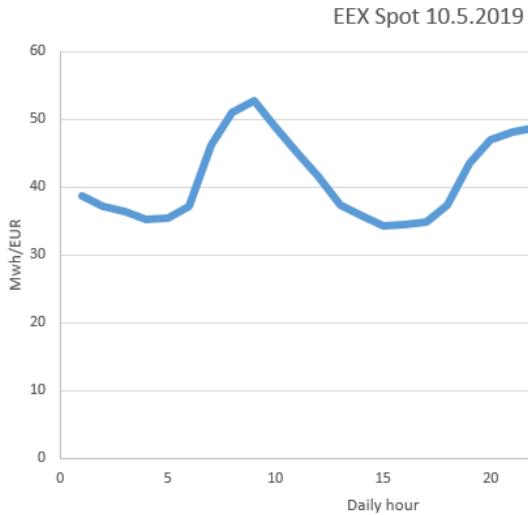


**Increased
demand**



**40%
renewables**

Brief: Transparency & Ease of use



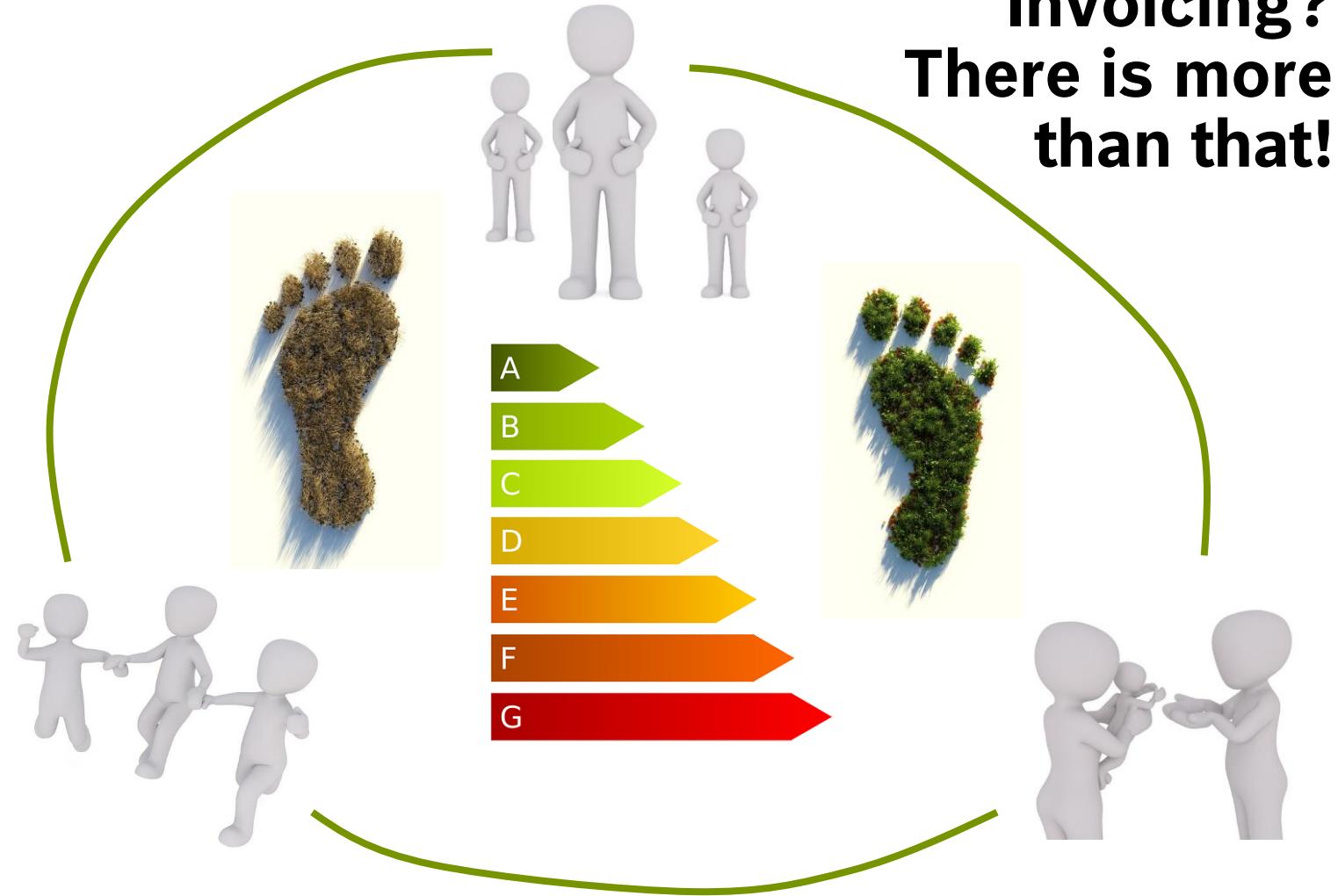
Change filter



Render now!



Today



Brief:
Invoicing?
There is more
than that!

EWE – one of the largest companies in northwest Germany

EWE

Energy, telecommunications and information technology.



Image: EWE NETZ



Image: EWE AG

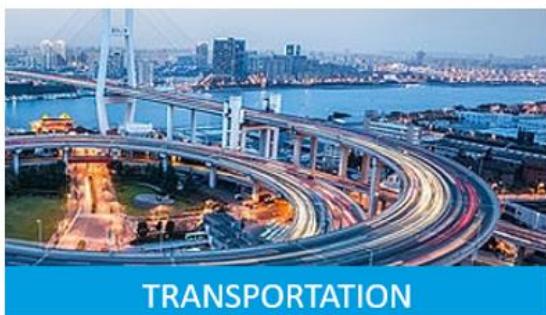


Image: Fotolia

2018

- 1.4 million electricity customers
- 0.8 million gas customers
- 700,000 telecommunications customers
- Sales of EUR 5.7 billion
- Average number of employees 8,508

“We make innovation a part of everyday life.”



285
employees 2018



16 Mio. €
Umsatzplanung 2018

3.608
publications (Oct. 2018)



> 25
spin-offs

> 700
partners for cooperation



> 1.600
alumni „OFFISianer“

12
granted patents



121
PhD's (Oct. 2018)



> 780
R&D-
projects

THE HACK COACHES



Dr. Norman
Ihle
OFFIS e.V.



Christoph
Franzius, M.Sc.
OFFIS e.V.



Dr. Justin
Heinermann
EWE AG



Dr. Heinrich
Klein
EWE AG



Generali Hack Enabler #BCX19

Utility Cross Domain – Fire and Water Prevention

13.05.2019 Berlin

René, Max, Stephan

Our motivation & evolutionary DNA

Life-time-partner to our customers

Generali Group is a major player in the global insurance industry. With our Smart-Insurance-Offensive (*Generali Vitality, Domocity, Mobility, etc.*) we reinvent insurances with the intention to improve people's lives and being a life-time partner to our customers.



Why we are joining #BCX19

Generali Smart Insurance Offensive - from protection to prevention

We shift our focus **from protection and indemnity to prevention and customer service.**

Our today's challenge:

Tackle water and fire prevention by coming up with smart solutions to solve genuine problems.

► Heating up ☺ the Kühlhaus together



Stephan Weiss
Lateral Thinker, IoT

#25insurtech influencer

Generali



René Führer
BI Lead Architect

#datadriven #iot #analytics

Generali



Maximilian Weber
Middleware Specialist

#machinelearning #iot #splunk

Generali



Follow us on LinkedIn or Instagram @generaliiinformatik



BCX19 – Utility Cross Domain Hack Enabler: HERE Technologies – Weather API



Features

- Get current weather reports or weather forecasts for a specific location.
- Check for severe weather alerts at a specific location.
- Check when the sun and moon rise and set at a specific location.

How to access data?

- ▶ REST API

How to interact with the device or the system?

- ▶ Get your credentials by signing up for free at <https://developer.here.com/>
- ▶ Follow the documentation to include HERE maps in your application

► *Link to documentation:*
<https://developer.here.com/documentation/weather>

► *Check out our hands-on blogs to get ideas and inspiration for use cases*
<https://developer.here.com/blog/topic/hands-on>

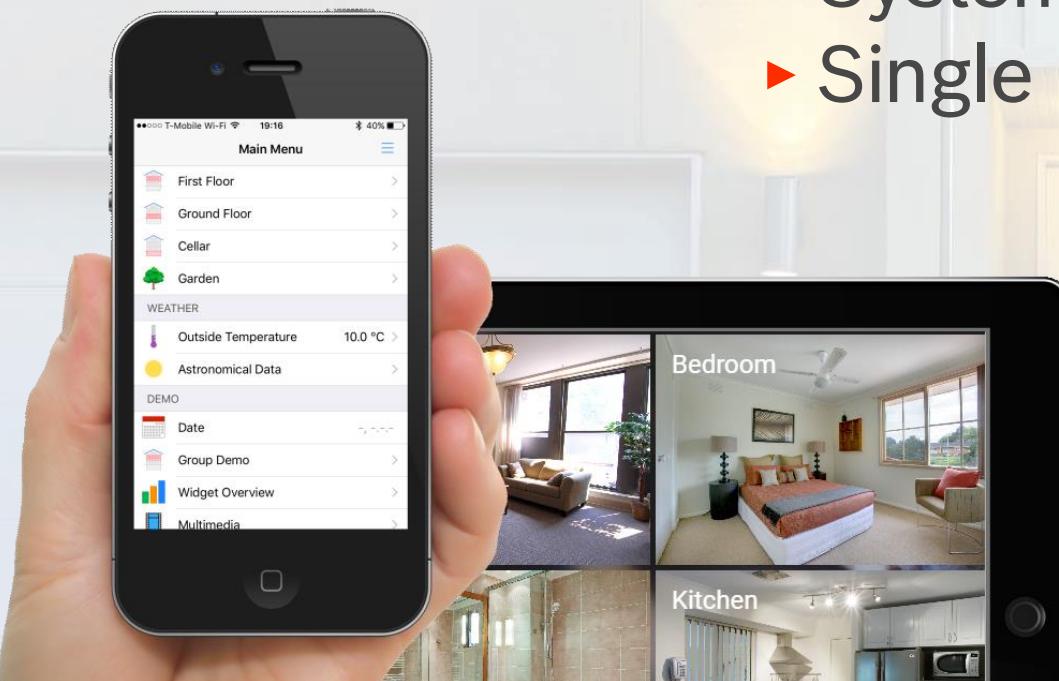
What events are available?

- ▶ Weather by Zip code, latitude, longitude
- ▶ Hourly, Weekly forecast
- ▶ Sunrise and sunset times
- ▶ Multi language support

WHAT IS



- ▶ Open Source Software Project
- ▶ Focus on Smart Homes
- ▶ System-of-Systems Approach
- ▶ Single UI / Dashboard / Automation



COMMUNITY STATISTICS

- ▶ 30 Github Repos
- ▶ ~ 500 Contributors
- ▶ ~ 200 Pull Requests / Month
- ▶ > 100k Users
- ▶ ~ 30.000 Downloads / Month
- ▶ ~ 7500 Posts / Month

OPENHAB ECO-SYSTEM

NATIVE APP
ANDROID

NATIVE APP
IOS

NATIVE APP
WINDOWS

OPENHAB CLOUD

GATEWAY RUNTIME

PACKAGING

ALEXA SKILL

GOOGLE
ASSISTANT

IFTTT

APT

RPM

DOCKER

UBUNTU SNAP

SYNOLOGY NAS

QNAP NAS

Your Hack Coaches:
Romano Otte
Tomasz Wrona



Welcome to the Home Connect Developer Program



1 To get started, please create a developer account here
<https://developer.home-connect.com/>

2 Global access
Available in all regions where Home Connect products are marketed

3 All main categories supported
Oven, cooktop, hood, coffee machine, fridge, dishwasher, washer, dryer, vacuum robot

4 Well-documented REST API
Enables an easy and fast integration

5 Easy testing possibilities
Home appliance simulators & testing mode for physical home appliances

6 Beta Testing Phase
Enables testing on physical appliances across multiple locations

Icons: 1. People icon, 2. Earth icon, 3. Cloud icon labeled 'API', 4. Stove icon.

Bosch Software Innovations

