

## Personal Experience in Founding and Growing an IT-Security Business in Bochum

ESCRYPT - from Zero to Hero!



#### **Curriculum Vitae**



#### **Education**

- Master of Science, Electrical Engineering, (Worcester, MA, USA)
- Ph.D. in Cybersecurity, Ruhr-University Bochum (Bochum, Germany)

#### **Experience**

- Securet (Germany): Security Engineer
- Worcester Ploytechnic Institute (USA): Researcher
- Ruhr-University Bochum (Germany): Researcher
- ESCRYPT / ETAS / Bosch (German):
  - Co-Founder
  - Chief Sales Officer
  - Managing Director
  - Chairman of Managing Directors
  - Vice President
  - Portfolio Manager Cyber Security



#### **Innovation Management**

- Analyze the strength of Bochum
- Find new fields for future actions
- Realization of new ideas



#### Internationalization

- Represent the industry of Bochum abroad
- Connect foreign companies with the ecosystem in Bochum
- Attract companies to invest in Bochum

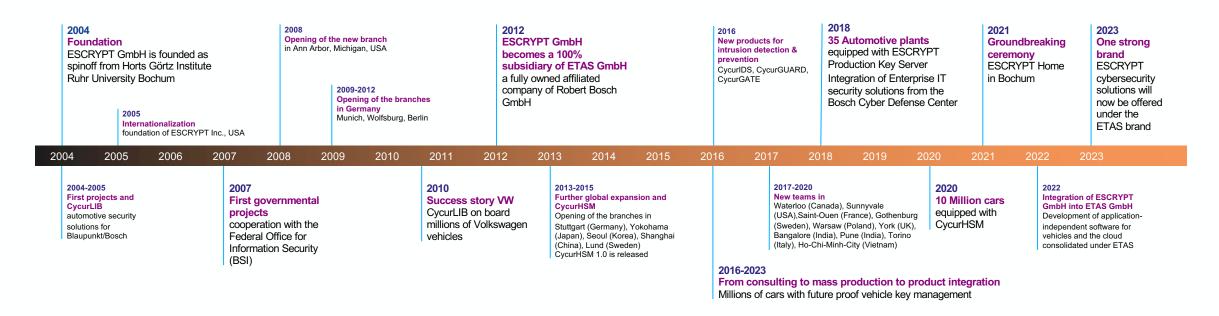


#### **Enhancements of IT-Security**

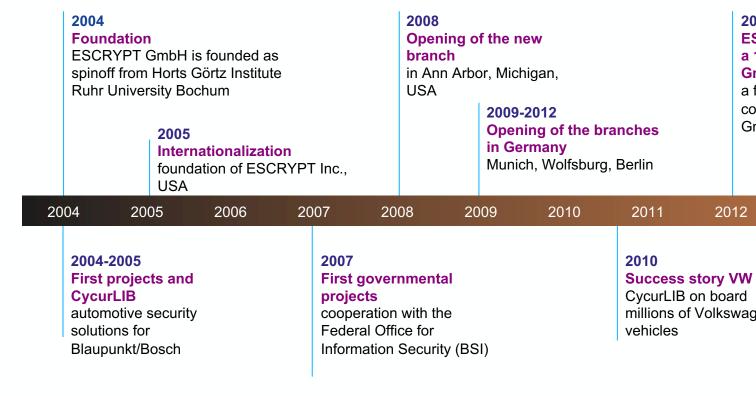
- Support networking between different players (industry, academia, politics, associations, ...)
- Accommodate the needs of the security players in Bochum
- Enables events



- ESCRYPT is technologically pioneering for automotive cybersecurity
- ESCRYPT offers holistic cybersecurity solutions
- ESCRYPT automotive security solutions (today from ETAS/Bosch) are used millions of times around the world to secure vehicle systems
- ESCRYPT set standards for the cybersecurity of software-defined vehicles, intelligent traffic systems and connected vehicle fleets.











### Were We Set Up For Success?

- No, only consulting service and no scalable product
- No, our potential customers did not understand why security is important für automotive industry
- No, real scaling (international) sales strategy. Our Strategy "We wanted to get money from the 5 German car manufacturer in the first 12 months".
- Fact:
  - Investors would never have given us money
  - We were successful in signing contracts within the first 12 months with:











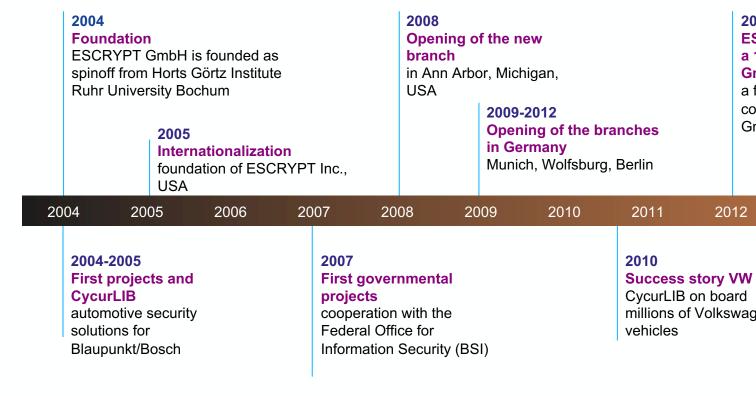


## Did We Have A Good Team?

- Yes and No, I just finished my technical PhD in Cybersecurity (like some other member of our team). The team members told me:
  - Thomas, you know how to "speak", and you know Security
  - Thomas you are the CSO (chief sales officer) of the company
- Fact:
  - We were able to run a positive business from the first day
  - Later the sales was getting larger, and we needed a "real" salesperson









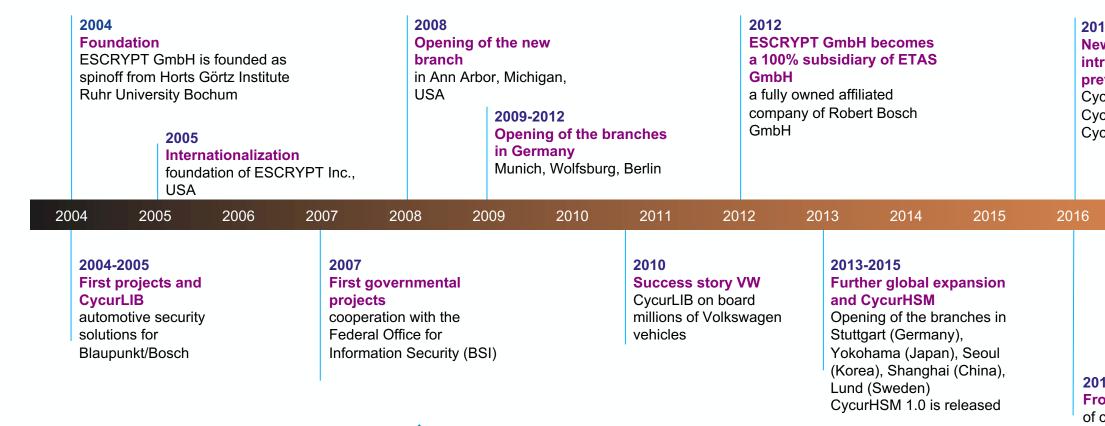


## How About your International Strategy?

- We were greenhorns in the international market:
  - <u>ESCRYPT Product name "ES" plus abbreviation</u>
  - Software library -> esLIB
  - We started our sales activities in the USA and the pronunciation was "E-SLIP" (suddenly, we were in the market of selling "electronic underwear") -> We needed a new name
- Fact:
  - The product (today called CycurLIB) is used in millions of vehicles worldwide
  - We have excellent teams in the USA / Canada and around the world









## Did You Prepare For The Selling of ESCYPT?

- We did not prepare at all!
- We needed the money for investing in products (our customers asked for)
- 2012: 3 different companies wanted to buy us -> we sold to ETAS / Bosch
- Facts:
  - Bosch invested heavily in us
  - We are now the by far biggest Cybersecurity team within Bosch
  - The manager that signed our first contract @ ESCRYPT (in 2005)
     also signed the contract of buying the company





## Did You Imagine The Big Success?

- In 2005: We went everywhere in the automotive industry and told them "how to do security" -> Hero mode to go automotive market
- Earned most money with Government and public funded project
- Starting about 2015 the competition went strong -> more and more players on the market.
- Fact:
  - Bosch helped us (financial power, global footprint, stable processes, certifications, ...)
  - You need be lucky once in the while





mbH is founded as lorts Görtz Institute ty Bochum

sch

2005
Internationalization
Toundation of ESCRYPT Inc.,

2008
Opening of the new branch
in Ann Arbor, Michigan,

USA

2009-2012
Opening of the branches in Germany
Munich, Wolfsburg, Berlin

ESCRYPT GmbH becomes a 100% subsidiary of ETAS GmbH a fully owned affiliated

a fully owned affiliated company of Robert Bosch GmbH

2013

2016
New products for intrusion detection & prevention
CycurIDS,
CycurGUARD,

2017

CycurGATE

2016

2018
35 Automotive plants equipp with ESCRYPT Production Ke Server
Integration of Enterprise IT security solutions from the Bosch Cyber Defense Center

2019

2007 2008 2009 2010

2007

First governmental projects cooperation with the

2007

First governmental
projects
cooperation with the
Federal Office for
Information Security (BSI)

2010
Success story VW
CycurLIB on board
millions of Volkswagen
vehicles

2013-2015
Further global expansion and CycurHSM

2014

2015

Opening of the branches in Stuttgart (Germany), Yokohama (Japan), Seoul (Korea), Shanghai (China), Lund (Sweden) CycurHSM 1.0 is released 2017-2020
New teams in
Waterloo (Canada), Sunnyvale
(USA),Saint-Ouen (France),
Gothenburg (Sweden), Warsaw
(Poland), York (UK), Bangalore
(India), Pune (India), Torino (Italy),
Ho-Chi-Minh-City (Vietnam)

2018

2016-2023
From consulting to mass production to product integrate of cars with future proof vehicle key management

2012

2011

2020

2020

10 M

equi

Cycu



f the new

or, Michigan,

2009-2012 **Opening of the branches** in Germany Munich, Wolfsburg, Berlin

2010

2012

**ESCRYPT GmbH becomes** a 100% subsidiary of ETAS **GmbH** 

a fully owned affiliated company of Robert Bosch **GmbH** 

2013

2016

2016

2015

**New products for** intrusion detection & prevention

2017

CycurIDS, CycurGUARD, CycurGATE

2018

35 Automotive plants equipped with ESCRYPT Production Key Server

Integration of Enterprise IT security solutions from the Bosch Cyber Defense Center

2019

2020

2020

2021 Groundbreaking ceremony

ESCRYPT Home in **Bochum** 

2022

2021

10 Million cars

equipped with

CvcurHSM

2023 One strong brand **ESCRYPT** cybersecurity

solutions will now be offered under the

ETAS brand

2010 **Success story VW** CycurLIB on board millions of Volkswagen vehicles

2011

2013-2015

Further global expansion and CycurHSM

2014

Opening of the branches in Stuttgart (Germany), Yokohama (Japan), Seoul (Korea), Shanghai (China), Lund (Sweden) CycurHSM 1.0 is released

2017-2020

New teams in Waterloo (Canada), Sunnyvale

2018

(USA), Saint-Ouen (France), Gothenburg (Sweden), Warsaw (Poland), York (UK), Bangalore (India), Pune (India), Torino (Italy), Ho-Chi-Minh-City (Vietnam)

2016-2023

From consulting to mass production to product integration Millions

of cars with future proof vehicle key management

2022 Integration of ESCRYPT **GmbH into ETAS GmbH** 

2023

Development of application-independent software for vehicles and the cloud consolidated under ETAS

2012



T GmbH becomes subsidiary of ETAS

ned affiliated of Robert Bosch 2016 **New products for** intrusion detection & prevention CycurIDS,

CycurGUARD, CycurGATE

2018

35 Automotive plants equipped with ESCRYPT Production Key Server

Integration of Enterprise IT security solutions from the Bosch Cyber Defense Center 2021

Groundbreaking ceremony **ESCRYPT** Home in

Bochum

2023

One strong brand

**ESCRYPT** cybersecurity solutions will now be offered under the ETAS brand

2014 2015 2016 2017 2023 2013 2018 2019 2020 2021 2022

2013-2015

Further global expansion and CycurHSM

Opening of the branches in Stuttgart (Germany), Yokohama (Japan), Seoul (Korea), Shanghai (China), Lund (Sweden)

CycurHSM 1.0 is released

2017-2020

New teams in

Waterloo (Canada), Sunnyvale (USA), Saint-Ouen (France), Gothenburg (Sweden), Warsaw (Poland), York (UK), Bangalore (India), Pune (India), Torino (Italy), Ho-Chi-Minh-City (Vietnam)

2020

10 Million cars equipped with CvcurHSM

2022 Integration of ESCRYPT **GmbH into ETAS GmbH** 

Development of application-independent software for vehicles and the cloud consolidated under ETAS

2016-2023

From consulting to mass production to product integration Millions of cars with future proof vehicle key management





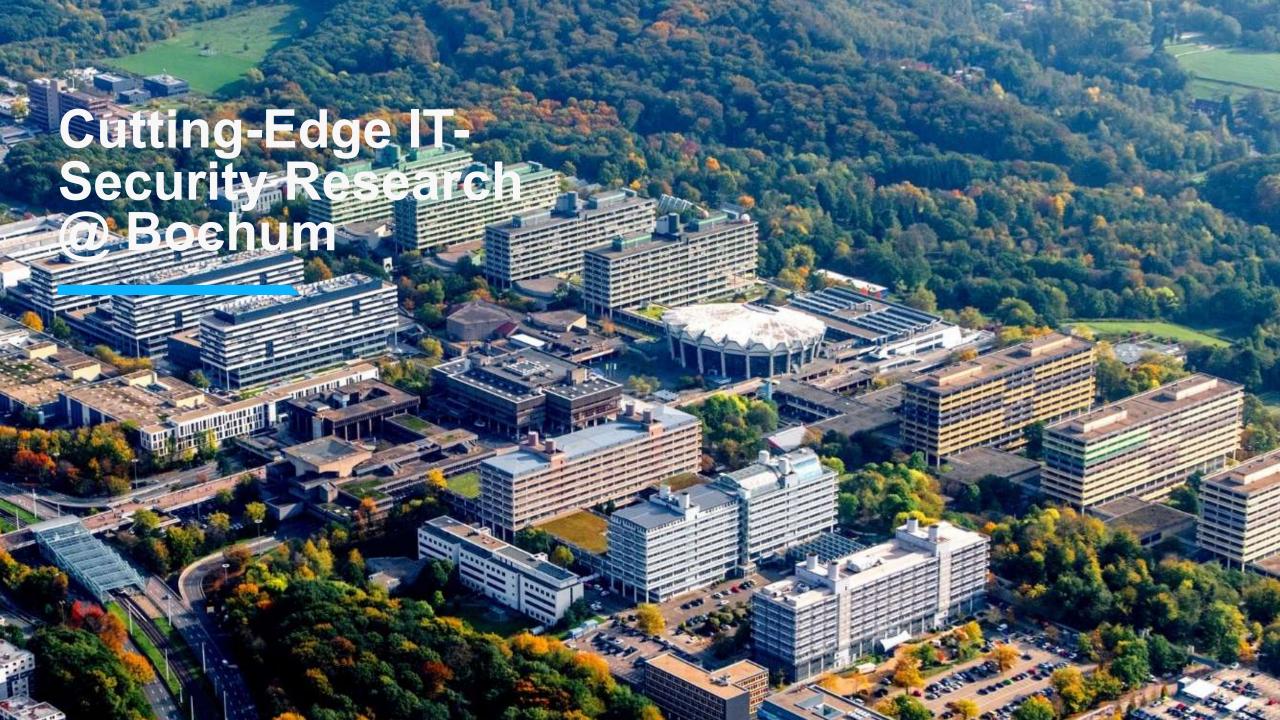
## Why Are We Still in Bochum?

We were not too lazy to move ;-).

#### Facts:

- We bought our own property
- We moved into our own building























# Simply saying "We just like it in Bochum"

**Bochum Wirtschaftsentwicklung** 

Viktoriastraße 10 44787 Bochum www.bochum-wirtschaft.de **Dr. Thomas Wollinger** 

T +49 234 61063 - 313

Thomas.Wollinger@Bochum-wirtschaft.de

**Facebook** 

**Instagram** 

<u>LinkedIn</u>

YouTube