# Innovation and Development Strategies

**Business Case PHOENIX CONTACT** 

Christian Helmig



## Inspiring quotes

## **Innovation**

"It's tough when markets change and your people within the company don't." (Harvard Business Review).

"If at first the idea is not absurd, then there will be no hope for it." (A. Einstein).

"If you always do what you always did, you will always get what you always got." (A. Einstein).

"The world is changing very fast. Big will not beat small anymore. It will be the fast beating the slow" (Rupert Murdoch).

"The best way to predict the future is to invent it."
(Alan Kay).

"To gain customer insights, we must understand that we are prisoners of what we know and what we believe". (Mohanbir Sawhney).

"There are no old roads to new directions." (Advertisement of the Boston Consulting Group).



#### Some facts about innovative companies

# Importance of Innovation

"...achieve up to ten times more revenue with innovations and new products"\*

"...achieve more than 40% of the turnover with products launched in the last 5 years"\*

"...are twice as fast in Time-to-Market regarding new products"\*

"...make use of innovation search fields and work with roadmaps"

"...invest 44% of their time in concept phase, whereas Follower spend 76% of their time in market launch (Frontloading) "

\* Compared to the average of their competitors Sources: ZEW Industryreport 2009; Manager magazine 2011







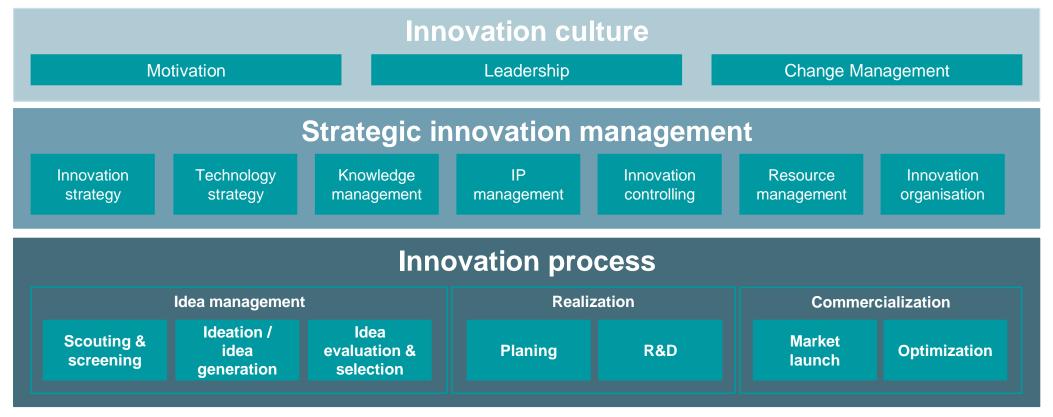
#### **Business Case PHOENIX CONTACT**

## Targets of the lecture

- Understand how innovation and development works in practice
  - Doing the right things (market orientation)
  - Doing the things right (process orientation)
- Structure follows strategy
  - How to manage innovation within a global decentralized company
  - Find the right balance between innovation and controlling
- Risk management is necessary
  - Reduce the company risks by diversification
  - Take care on the product and process risks within each project

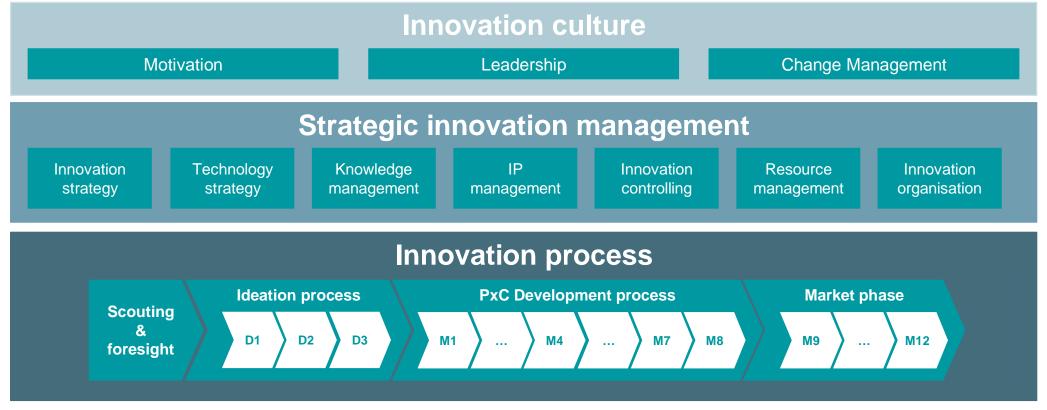


## **Innovation management**



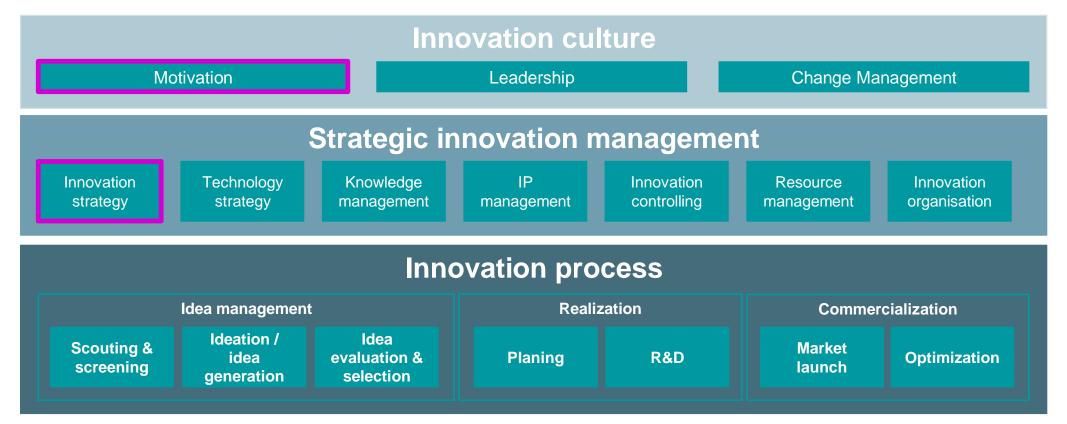


## **Innovation management**



## **Business Case PHOENIX CONTACT**

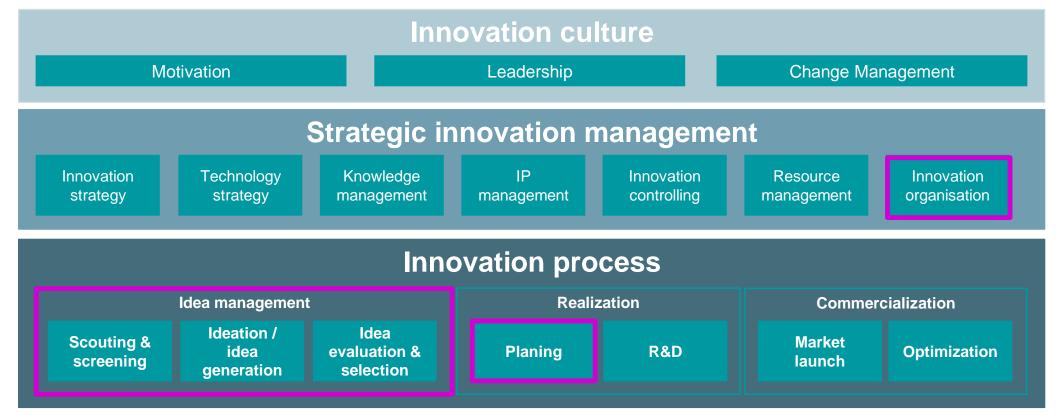






## **Business Case PHOENIX CONTACT**

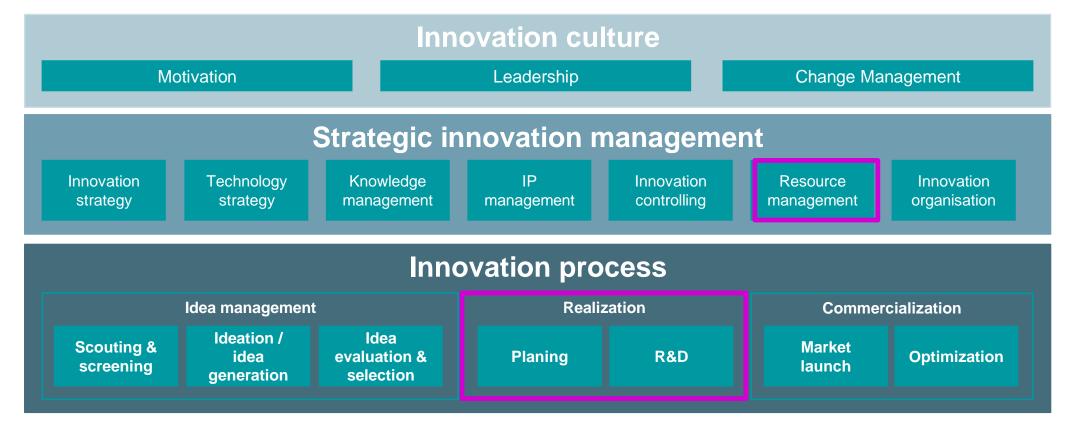






## **Business Case PHOENIX CONTACT**

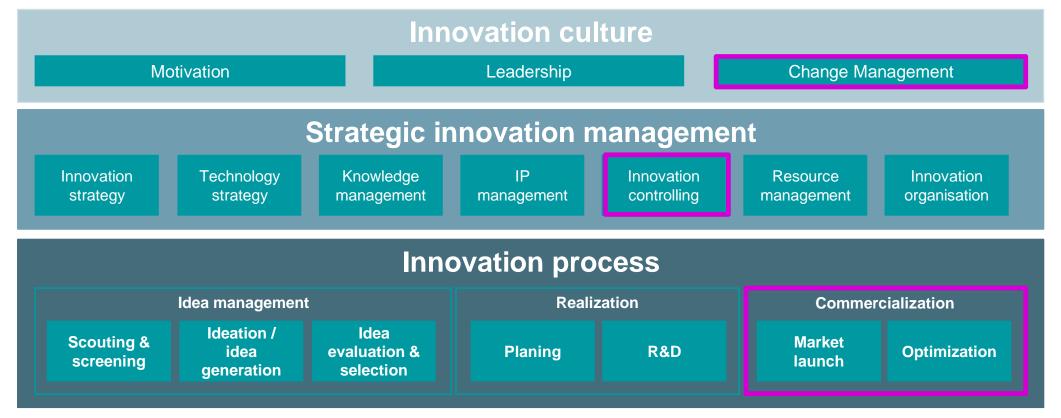
## Part III





## **Business Case PHOENIX CONTACT**

## Part IV



# Innovation and Development Strategies

Business Case PHOENIX CONTACT
Part I

Christian Helmig





# Today's agenda

- Introduction of the company PHOENIX CONTACT and the lecturer
- Importance of the strategy
- Target markets / applications & suitable product portfolios



# Today's agenda

## Introduction of the company PHOENIX CONTACT and the lecturer

- Importance of the strategy
- Target markets / applications & suitable product portfolios





Phoenix Contact is a privately owned company founded in 1923 with great depths of added value. It is independent and has the freedom to make its own decisions as a company.



#### Continuous growth together

# Company headquarters and competence centers



**Headquarters**Blomberg | Germany



#### Continuous growth together

## Company headquarters and competence centers



**Group Center of Competence** Harrisburg | USA



**Innovation Center Electronics** Bad Pyrmont | Germany



**Group Center of Competence** Nanjing | China





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Germany | China | Taiwan | India | Poland | Sweden | Switzerland | Turkey | Argentina | Greece | USA 100,000

Products

22,000



**75%** 

Sales abroad

25%



Group Executive Board: Frank Stührenberg (CEO) Axel Wachholz (CFO) Frank Possel-Dölken (CDO)

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Dirk Görlitzer (COO, President BA ICE)
Torsten Janwlecke (COO, President BA DC)
Ulrich Leidecker (COO, President BA IMA)

10,200
Employees in Germany

1923



**TODAY** 









#### Technical expertise at a glance

## 2022 facts and figures

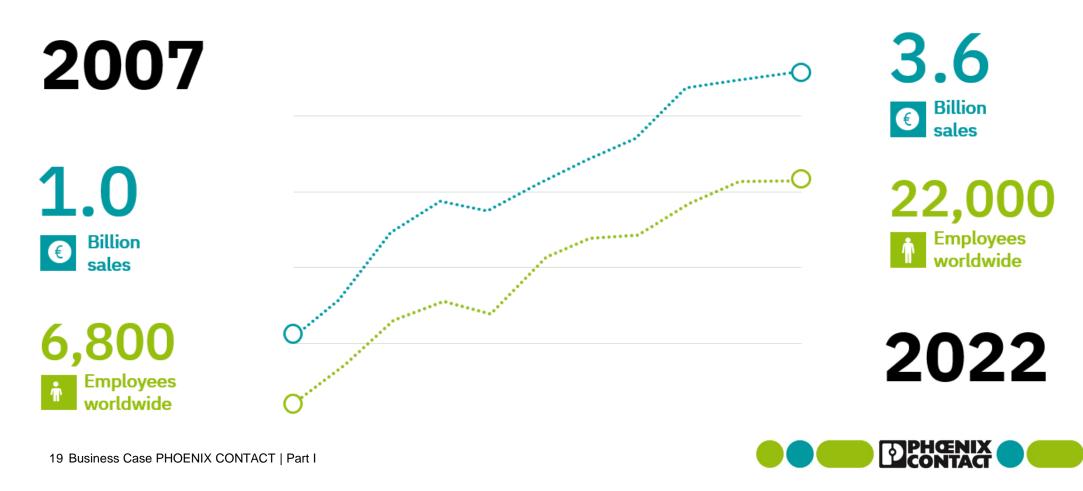
- has more than 2.000 engineers (in Germany).
- invests more than 7% of its turnover in R&D.
- launches more than 50 new product families every year.
- holds more than 2700 property rights worldwide.
- has development teams in 5 countries.





#### People and markets

## Continuous growth together





 $\sqrt{3}$ 

Solutions for electrification, networking, and automation are our contribution to a world in which renewable energy is available for the benefit of everybody.



































products







































































## **Corporate Structure**

#### **Group Functions**



#### **Core Business Areas**



Device Connectors



**Industrial Components** and **Electronics** 



Industry Management and Automation

#### **New Business Fields**



Innovation Ventures and Start-up-Culture







#### Core Business Area

## **Device Connectors**



Global network

Innovative connectors for the reliable transmission of signals, data, and power as well as modular electronics housings for designing cutting-edged device solutions

Translation of customer-specific requirements into innovative and trendsetting solutions















Our culture guarantees our success. Our dayto-day operations are characterized by respectful cooperation, open communication, and responsible, futureoriented design.



### About my person

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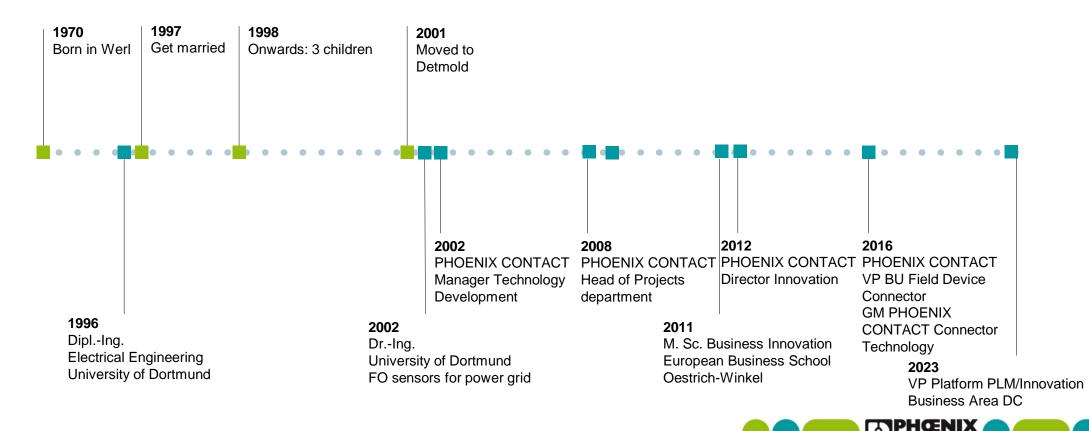






#### About my person

## **Christian Helmig**



## About you

## Short round of introductions



- Name
- Country
- Experience
- Motivation
- Expectation on the lecture
- ...



# Today's agenda

Introduction of the company PHOENIX CONTACT and the lecturer

### Importance of the strategy

Target markets / applications & suitable product portfolios



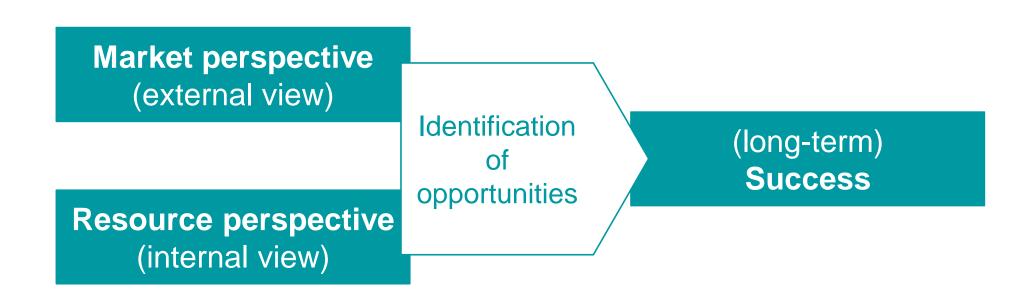
What is strategy (management)?

...so...

what is an innovation strategy about?



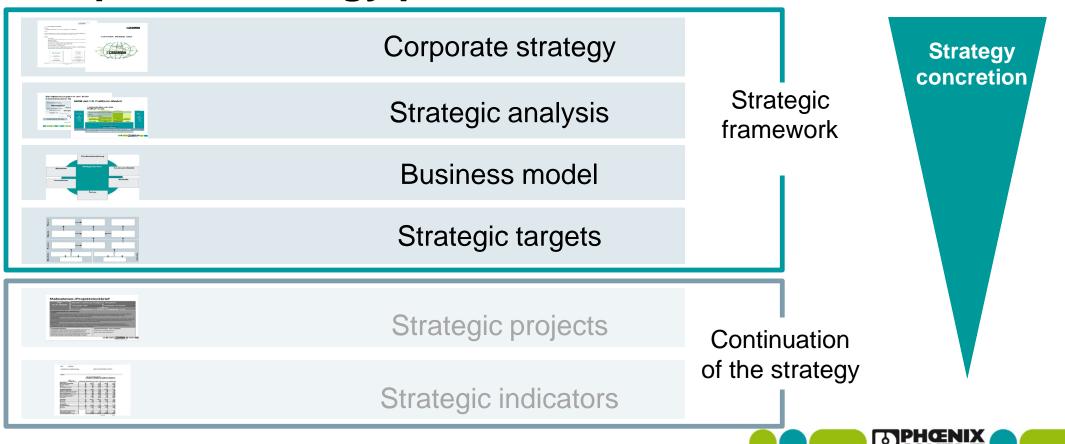
## Basic conception of strategic management





#### Strategy elements Phoenix Contact

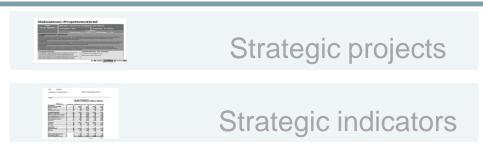
## **Corporate strategy process**



## Strategy elements Phoenix Contact

# **Corporate strategy process**





Core business + new business fields

Status quo, alignment of activities

Core + different perspectives

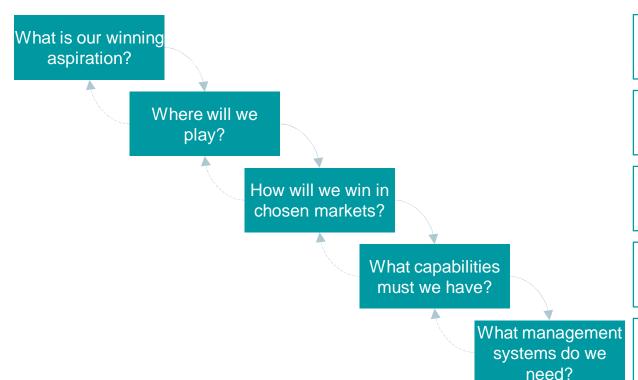
Longterm targets

Projects to achieve longterm targets

KPIs to measure achievement/success



# **Breaking down strategy**



#### The purpose of the company

Our guiding aspirations

#### The right playing field

 Where we will compete: our geographies, product catagories, consumer segments, channels, ...

#### The unique right to win

- Our value proposition
- Our competitive advantage

#### The set of capabilities required to win

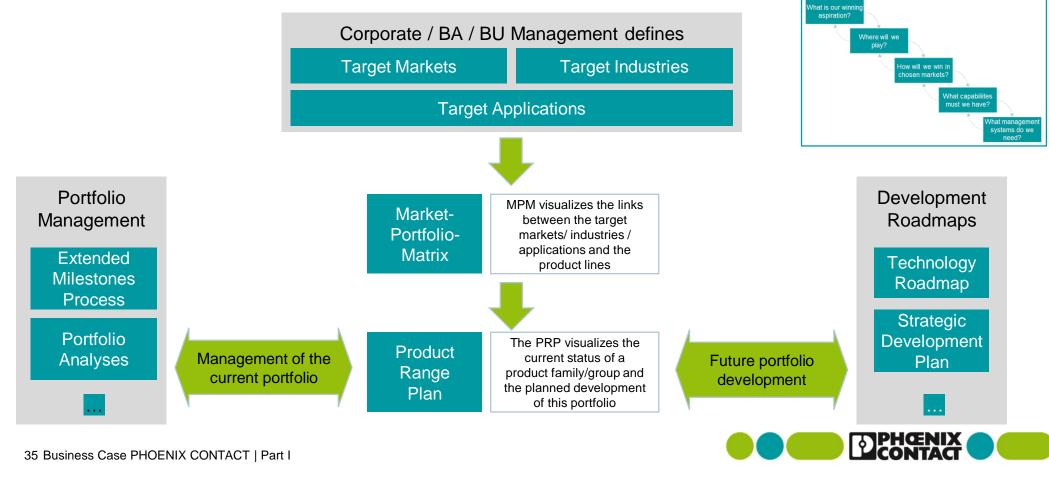
- Our reinforcing activities
- Our specific configuration

#### The support systems

 Systems, structures and measures required to support our choices



## Breaking down strategy: tool level



# Today's agenda

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### Where will we play? How to win?

# The right playing field & product portfolios







Distribution of resources according to your strategy

**Existing Products** 

## Ansoff matrix: matching markets and products

Existing Markets

Market penetration

New Markets

Market Development

**New Products** 

Product Development



#### One possible example of portfolio development

## Strategic options based on the Ansoff matrix









#### Year 1

## Year 2

## Year 3

#### Year 4

- Consolidation
- Redesign of products
- Build up roadmap for next years
- Innovation on well known areas
- Market launches with existing key customers
- Business case NM

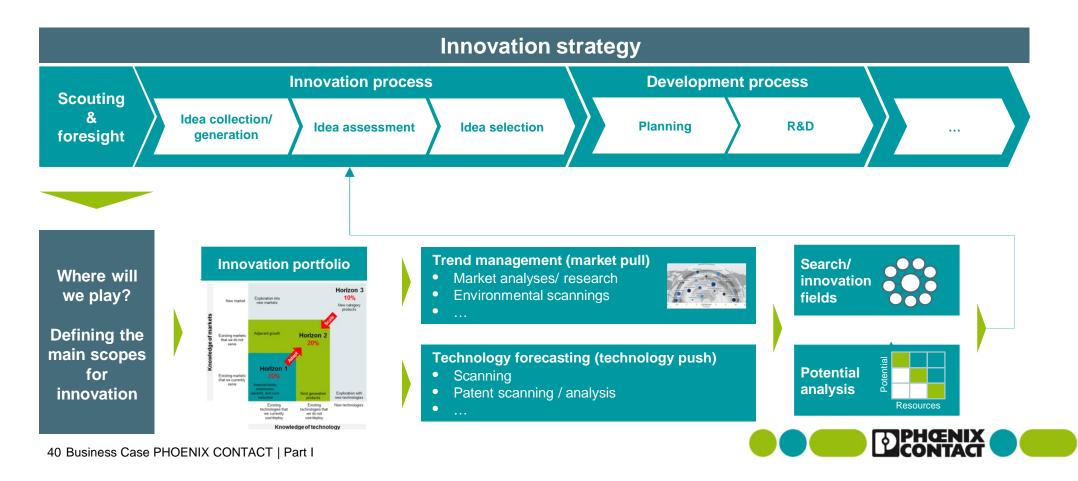
- Enter new market •
- Win first target customers/success stories
- Fulfill business case
- Business plan

Align additional resources towards new strategic direction



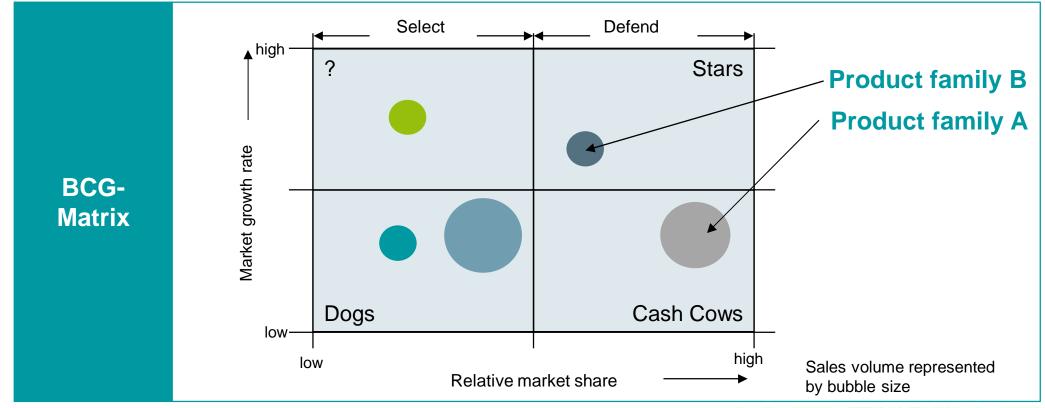
#### Innovation strategy

## Product portfolio development for chosen markets



## Strategies for existing product portfolios



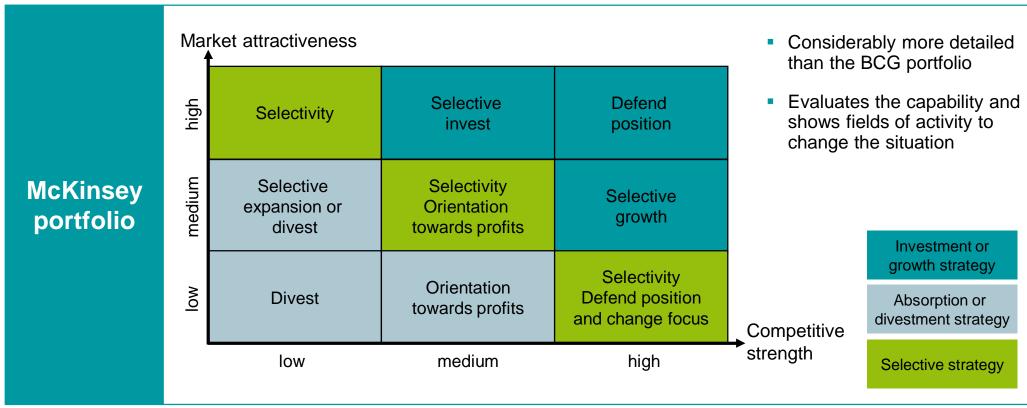






## Strategies for products & business fields











# McKinsey portfolio



## **McKinsey** portfolio

#### **Market attractiveness**

#### Market volume

Market size, market growth

#### **Market quality**

Industry profitability Innovation potential Margin for pricing Intensity of investments Toughness of competition

**Entry barriers** 

#### Supply

Availability/price of raw material

#### **Environment**

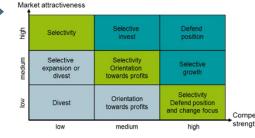
**Economic development** 

Inflation

Changes in technology

**Environmental protection** 

Description, evaluation and emphasis



#### **Competitive strength**

<u>Market</u>	<u>Technology</u>	<b>Production</b>	
Market share	R&D staff	Quality	
Size	Patents	Costs	
Growth	Experience	Systems	
Profitability	Creativity	Location	
Risk	Customer	Supply	
Price	proximity	Environment	

**Management** 

Culture Guidelines **Targets** 

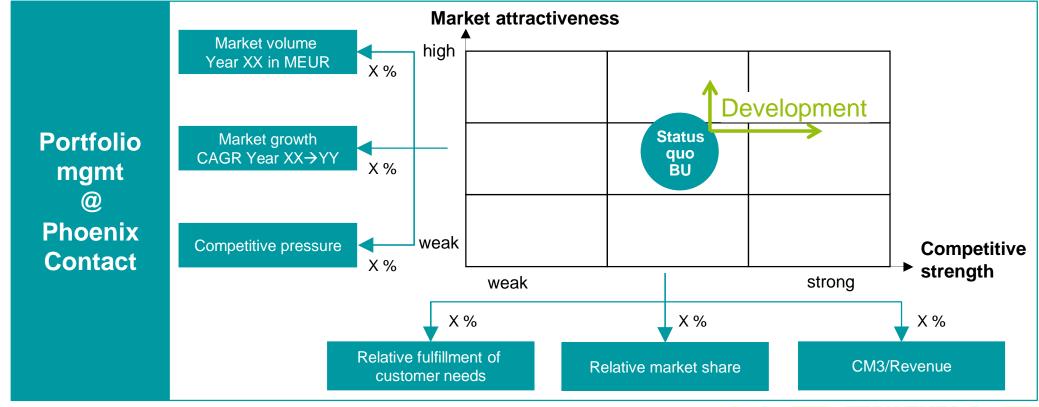
Qualification

Motivation



# **Applying the McKinsey portfolio matrix**





## Portfolio management @ Phoenix Contact

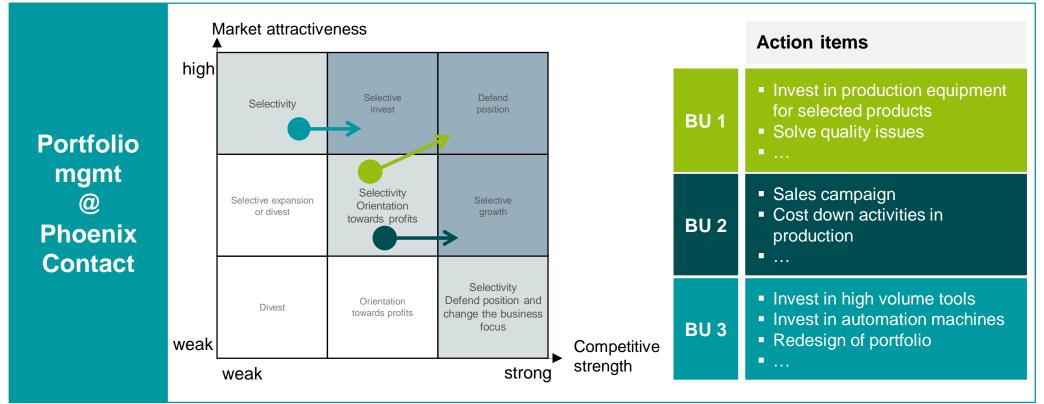
Existing Products

Market penetration

Market Development

Market Development

Diversification

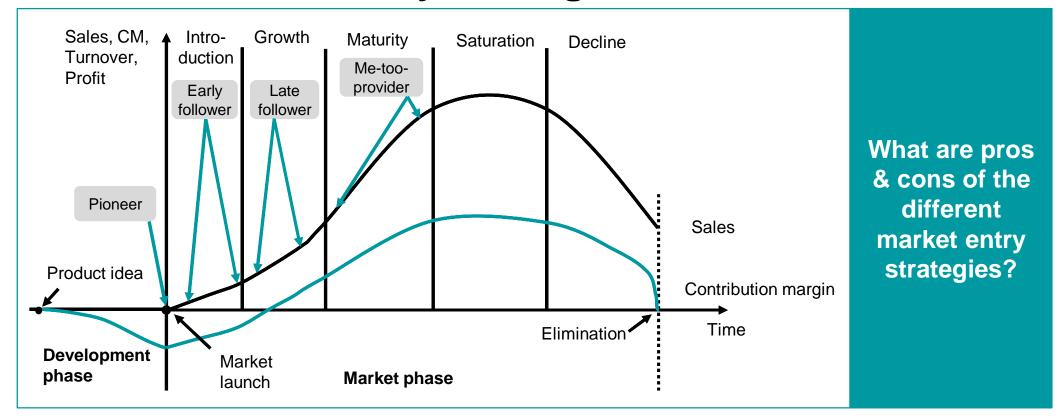


However, knowing which markets are attractive & which product portfolio is necessary is not sufficient...

...smart decision making about timing of market entry is also key to become successful.



## Different market entry strategies across the PLC



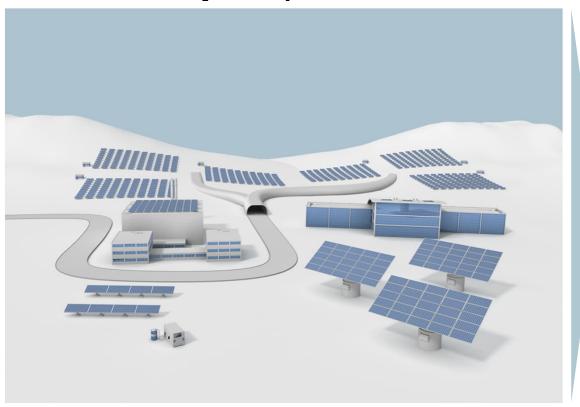
# Pros & cons of different market entry strategies

	Amount of RnD	Required investments	Technology/ market orientation	Main duties	Strategic target
Pioneer strategy (First-to-Market)	Very high research efforts	Very high	Rather technology- oriented (Technology-Push)	RnD	Technology leader
Early Follower	Intense development work	Low to medium	Rather market- oriented (Market- Pull)	Development/ sales	Customer orientation
Late follower	Strong customer- oriented development	Low	Rather market- oriented (Market- Pull)	Sales/ development	Customer orientation
Imitation strategy (Me-too)	No RnD effort	Very low	No technological competence	Production/ sales	Cost leader



#### Target markets

# PxC example: product line Solar (PV market)



## Market trends

- CAGR > 10%
- Solar energy becomes more competitive
- Consolidation of module manufacturers
- Further need for cost down and higher efficiency
- Due to failures in the field, trend towards high reliability

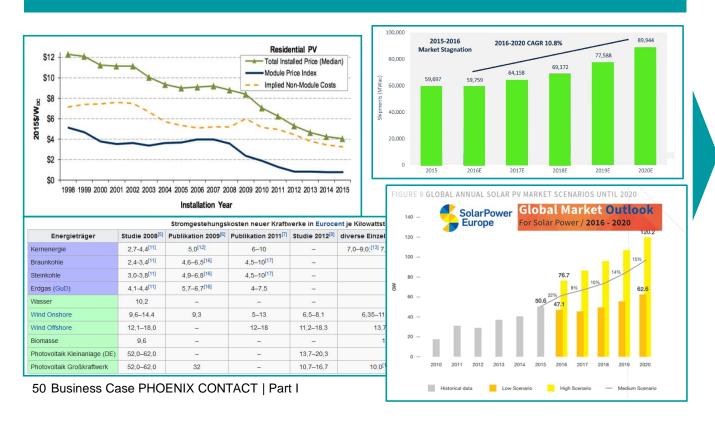


#### Target market Solar

# PxC example: product line Solar (PV market)

# Existing Products Market penetration Market Development Market Development New Business field: SOLAR Market Development

#### Market attractiveness: market & competitive analyses





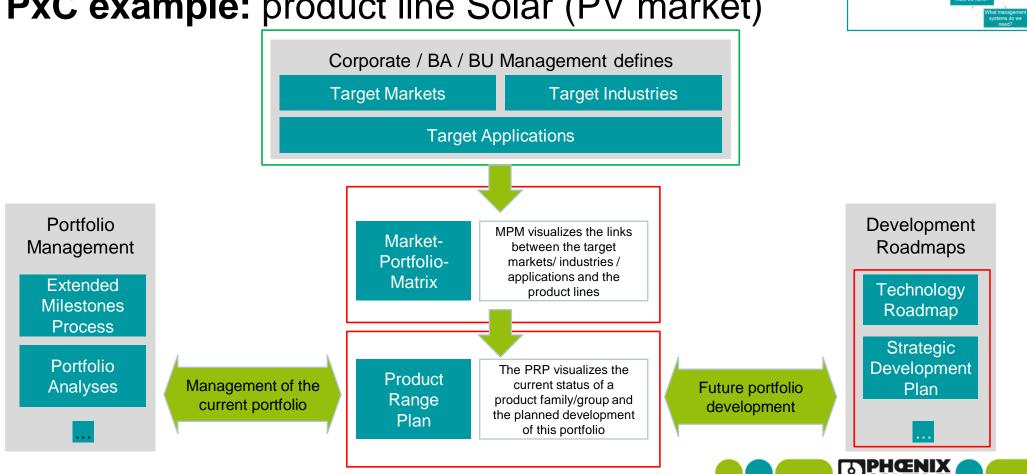






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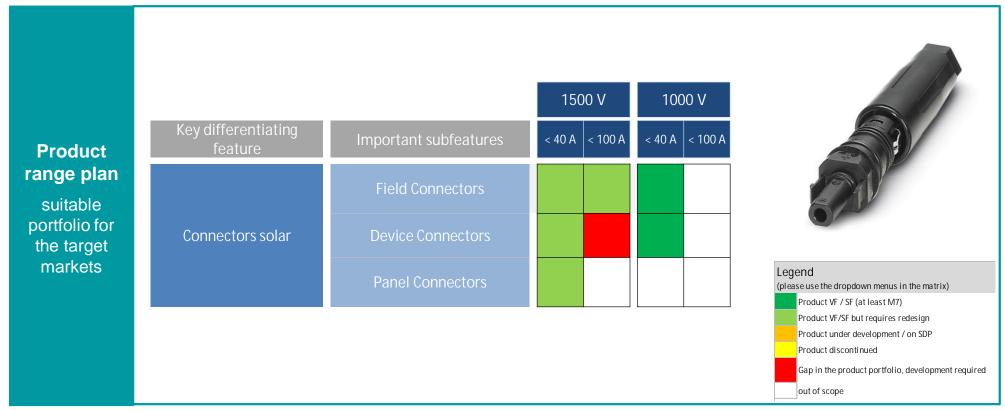
PxC example: product line Solar (PV market)



## PxC example: product line Solar (PV market)

**Product Line Solar** Industry Strategic Legend Market share attractiveness (last year in €) direction (please use the dropdown menus in the matrix)  $\mathbb{Z}$ Market-Industry attractiveness (volume/ growth/ profit)  $\mathbf{k}$ portfoliohigh  $\mathbf{k}$  $\vee$ medium matrix Traffic & transportation 7 low Matching of Energy production, transmission & distribution 7 Market share 7 Renewables: PV & wind target Infrastructure, New high → >10% Energy storage & charging 7 markets/ **Energies & ICT** medium → 5-10% 7 industries & low → <5% Telecommunication & IT 7 product Others 7 Strategic direction lines  $\rightarrow$ Expansion  $\rightarrow$ → Maintain  $\rightarrow$ **∠** Desinvestion  $\rightarrow$ 

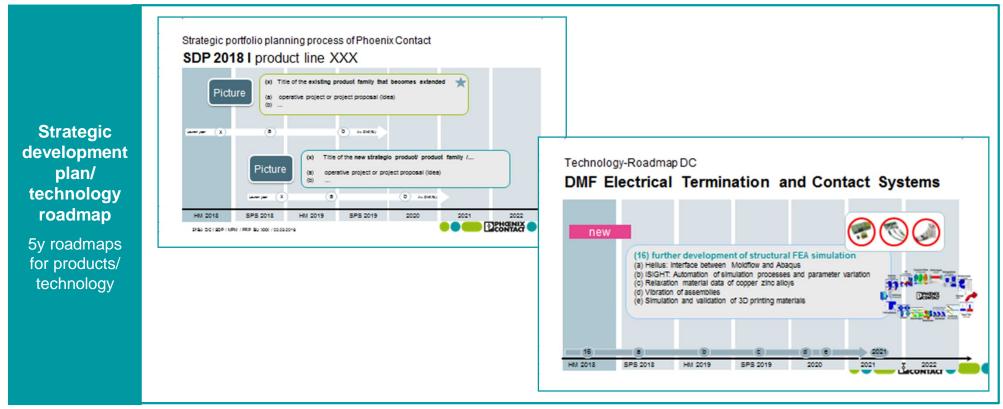
## PxC example: product line Solar (PV market)







## PxC example: product line Solar (PV market)





## **Everything appears straightforward, right?**

However, getting the right product ideas for real customer needs at the right time to the right price is challenging and hard work.

→ 20-40% of innovations fail in the capital goods industry!\*



# Many thanks for your attention.

