

## Ingredients of competitiveness

### 2.2 Factories of the Future - Towards Competitive Manufacturing in Europe

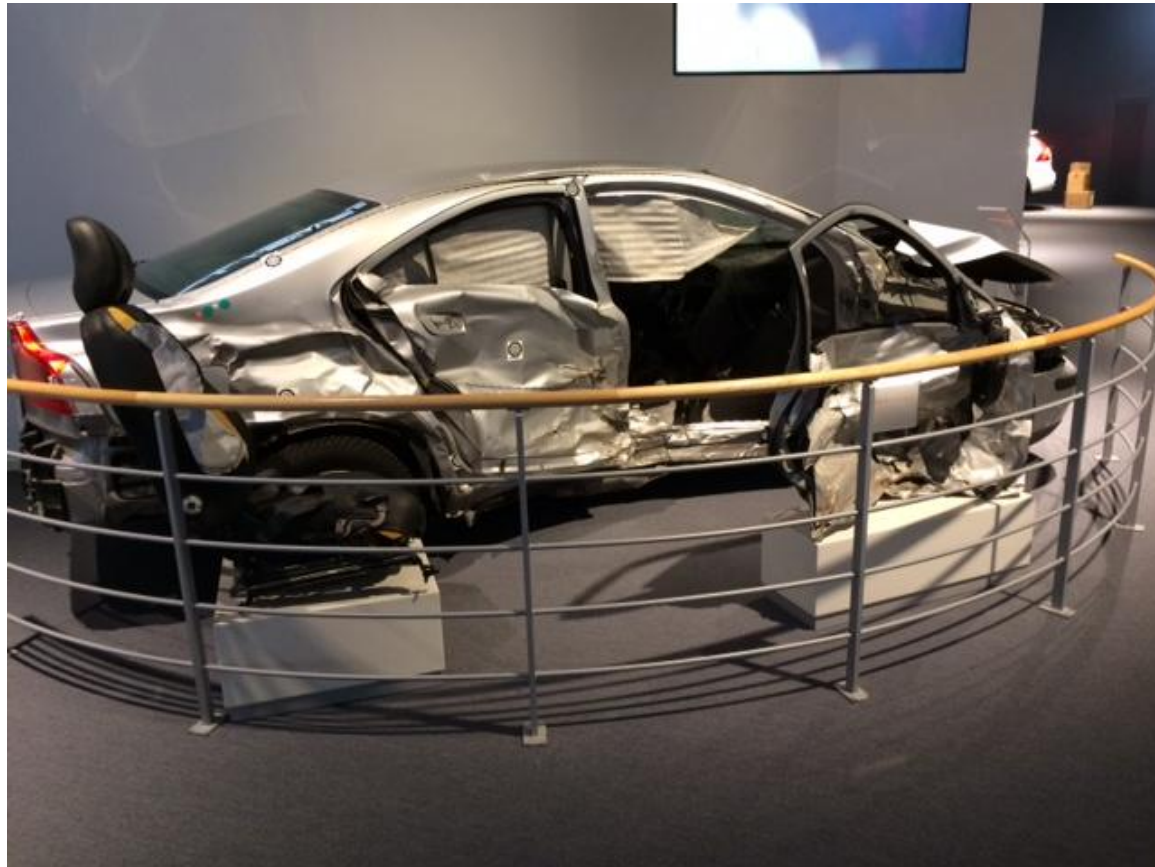


Christoph Hanisch  
Festo AG & Co. KG  
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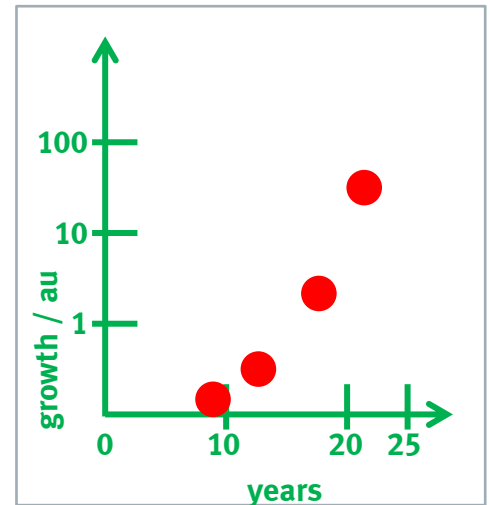
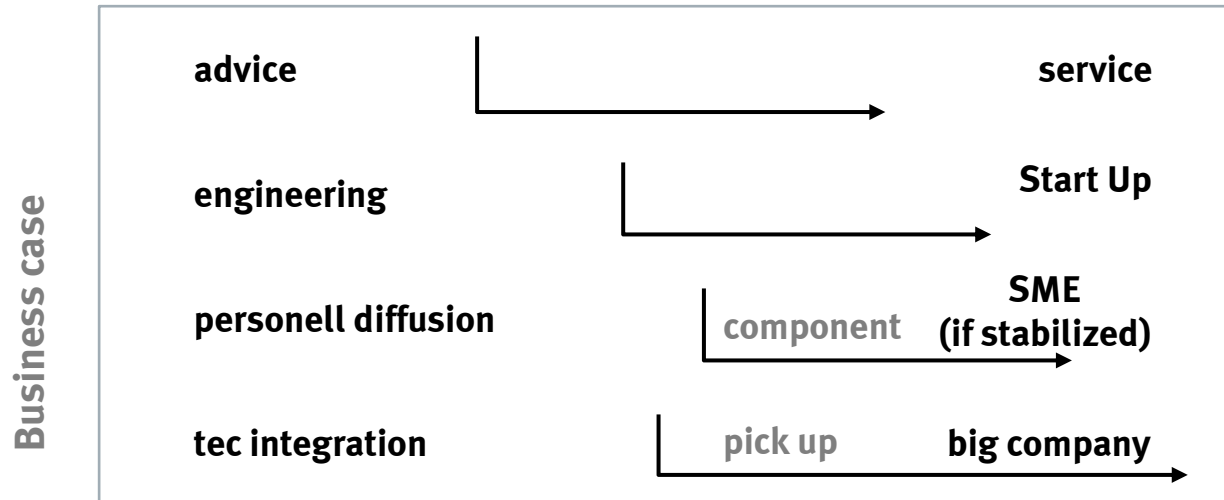
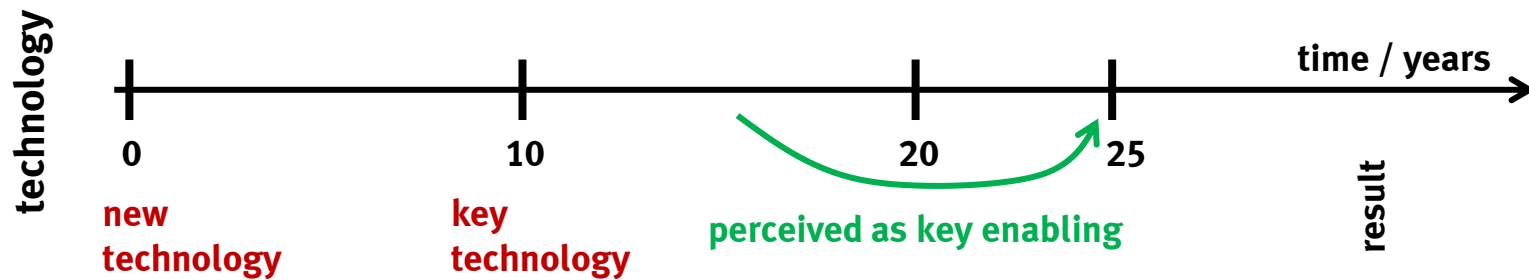
## Which is the KET?

Volvo S60  
Side crash at  
high speed

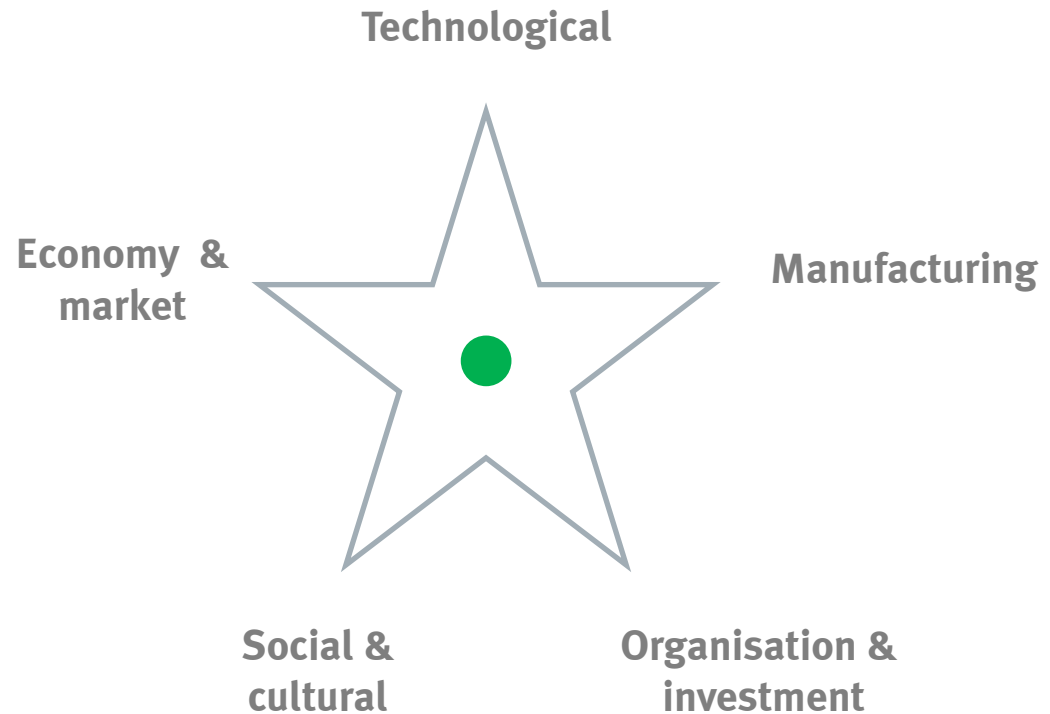
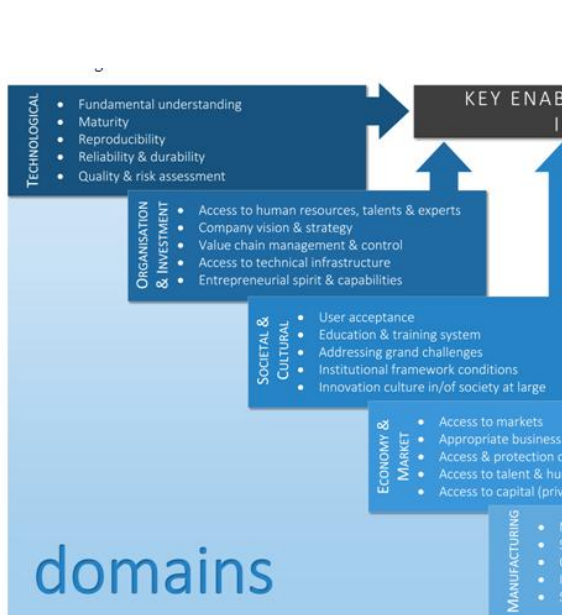
Courtesy of Volvo  
Gothenborg



# The fundamental KET mechanism as found in EU Knights



# Goal: competitive and economic interesting product



... where would you put the emphasis (multi dimensional solution space)

## Industry recommendations – EU Knights

### *Integration of Key Enabling Technologies -*

#### Recommendation n 1

A majority of interviewees underlined the importance of a clear **company vision and strategy** for technical innovation, the willingness to take risks and to be patient in case of setbacks. **Entrepreneurial spirit and capabilities** are required as a driving force. This is indicative of an embedded culture of innovation and open attitude to collaboration. Very often innovations are hampered by the constraints of legacy systems, e.g. by existing equipment, standards and value chains, risk aversion and habits of decision makers and end-users. It requires conscious effort to overcome this.

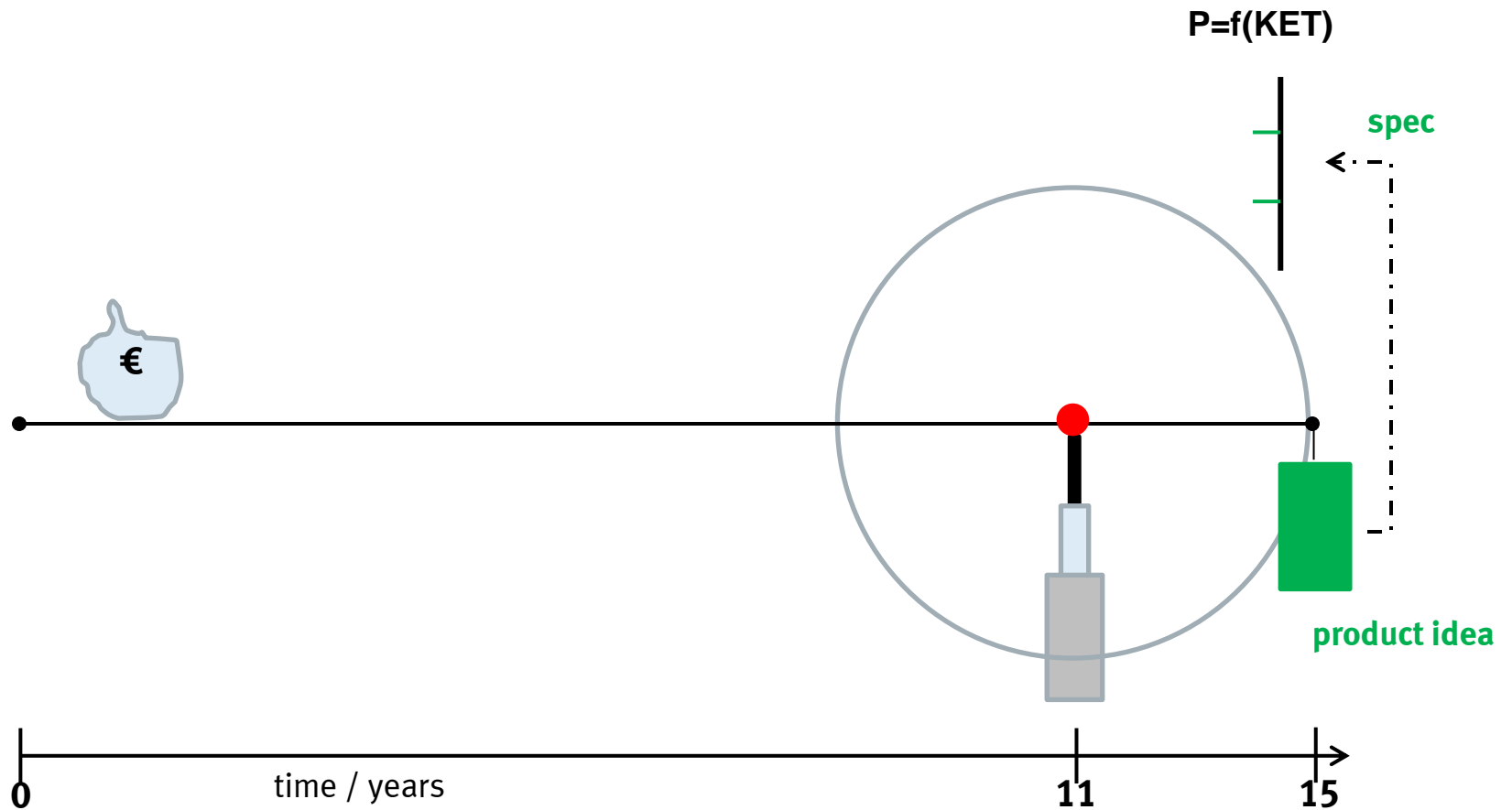
Supported by  MANUFUTURE-EU

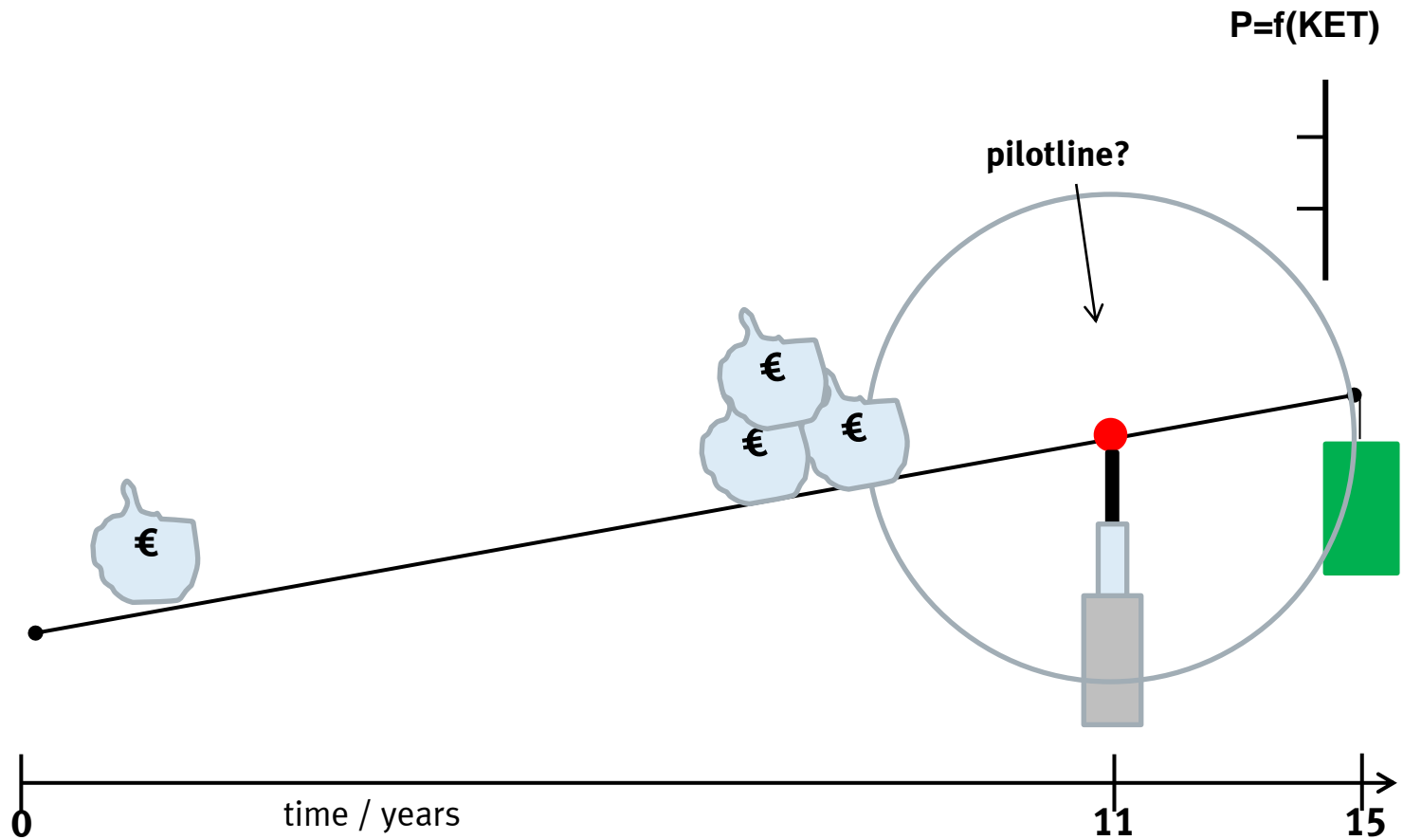


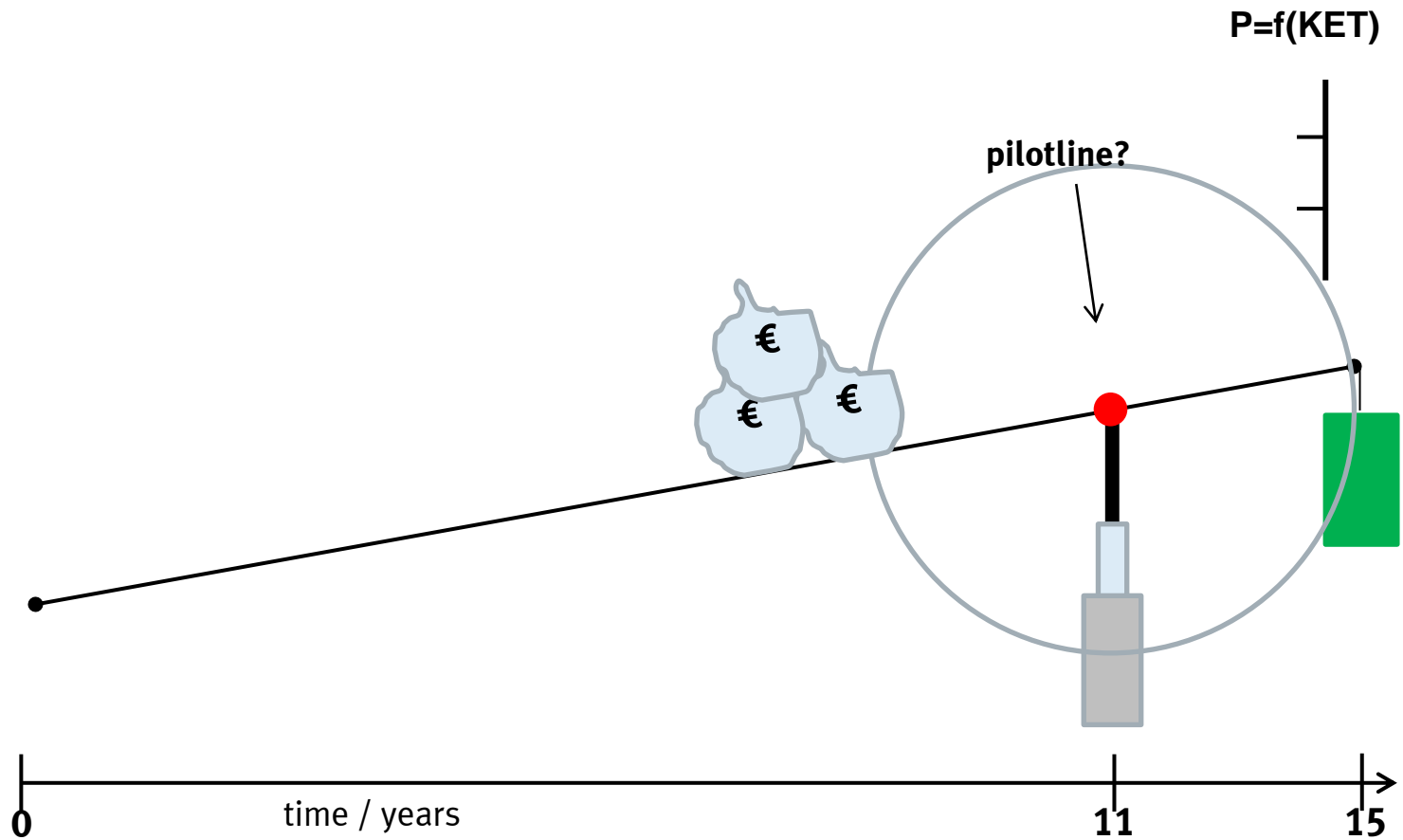
The research leading to these results has received funding from the European Union Horizon Programme (FP7/2007-2013) under grant agreement n° 608926

# We can summarize the results of the EU Knight' work

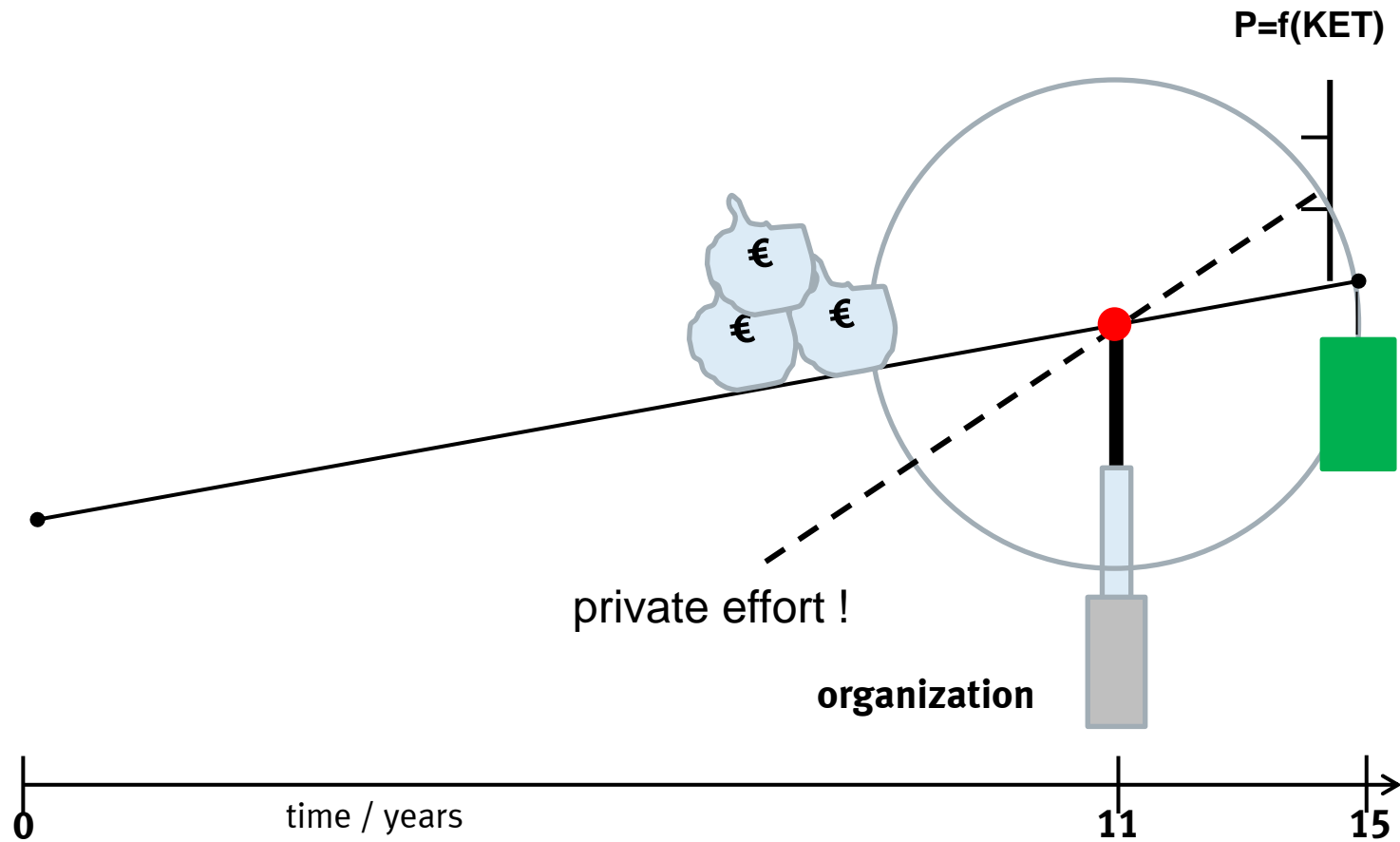
Let us discuss the levers we have









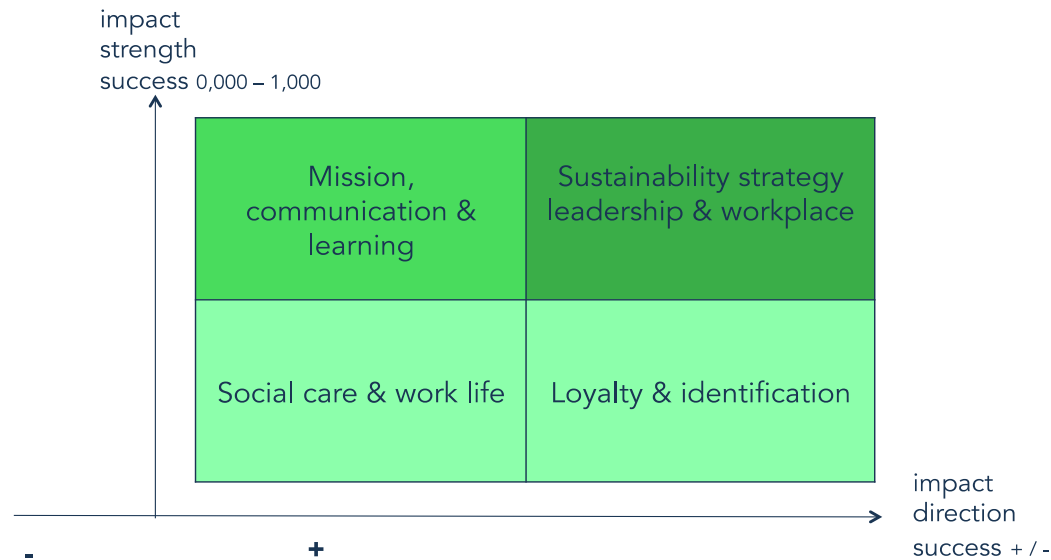


## Scharnhausen Factory



## Where would I put my strategic investment

1. Understand the competition of technologies to serve the purpose of the customer
2. Understand and improve organization
3. Make an effort to achieve social sustainability (result of SoSmart – **Social Sustainable Manufacturing in the Factory of the Future**)



**Thank you for your attention**