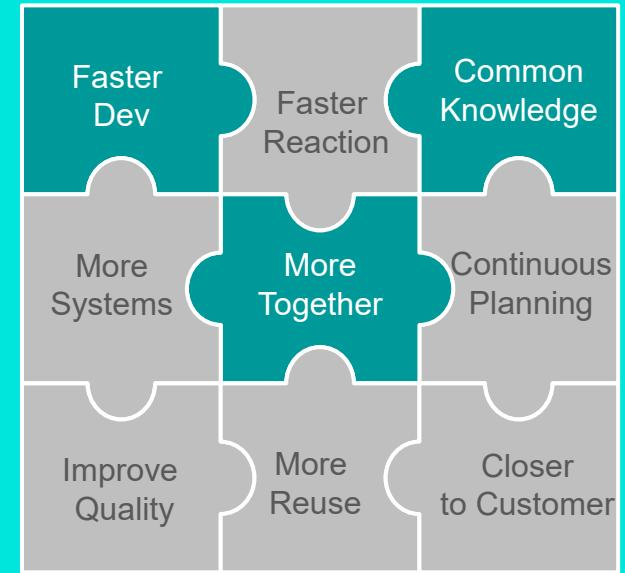




# Preciseness of Requirements

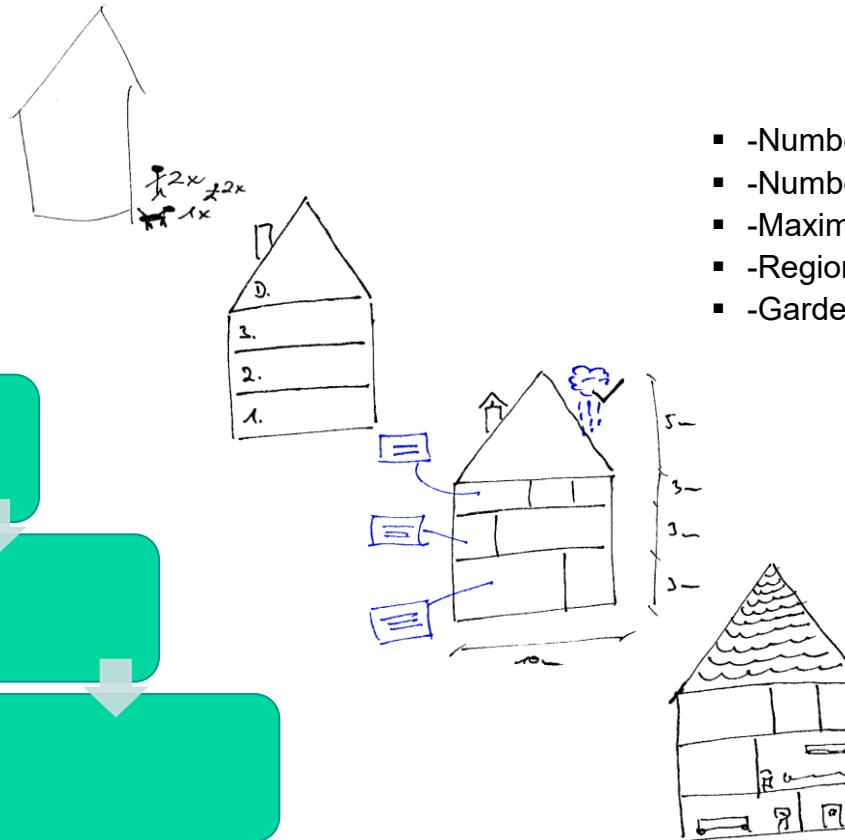
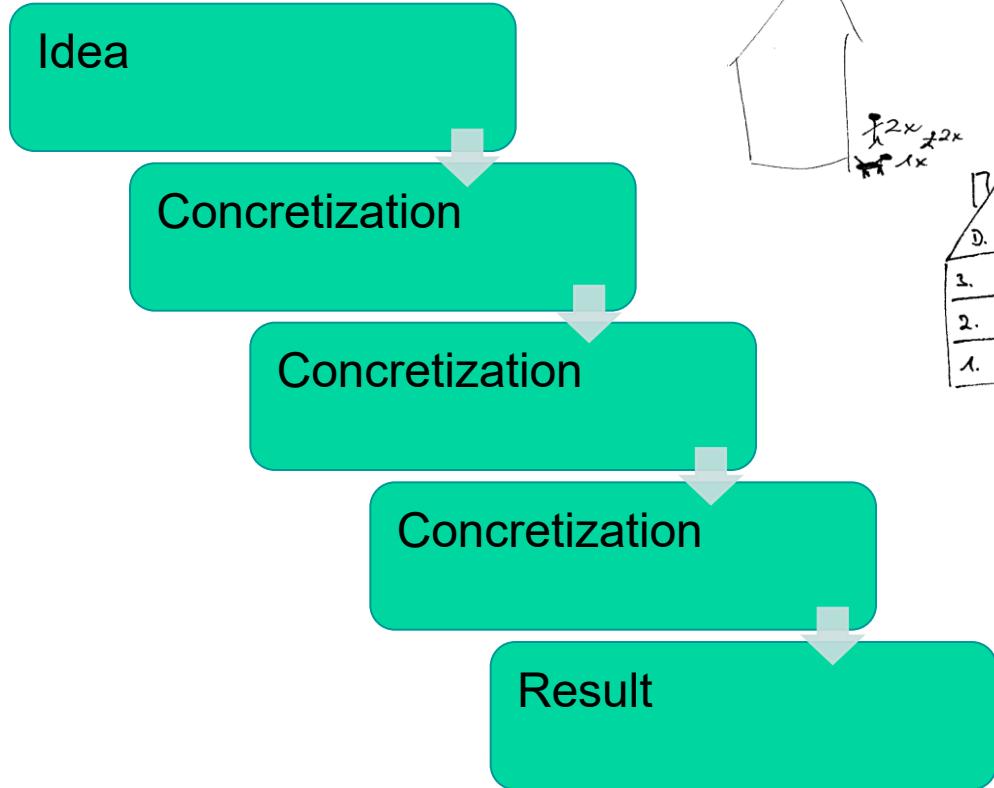
## - From Rough to Fine

What level of information do we need to be most efficient?



# From Rough to Fine

Precisionness of the information  
↓



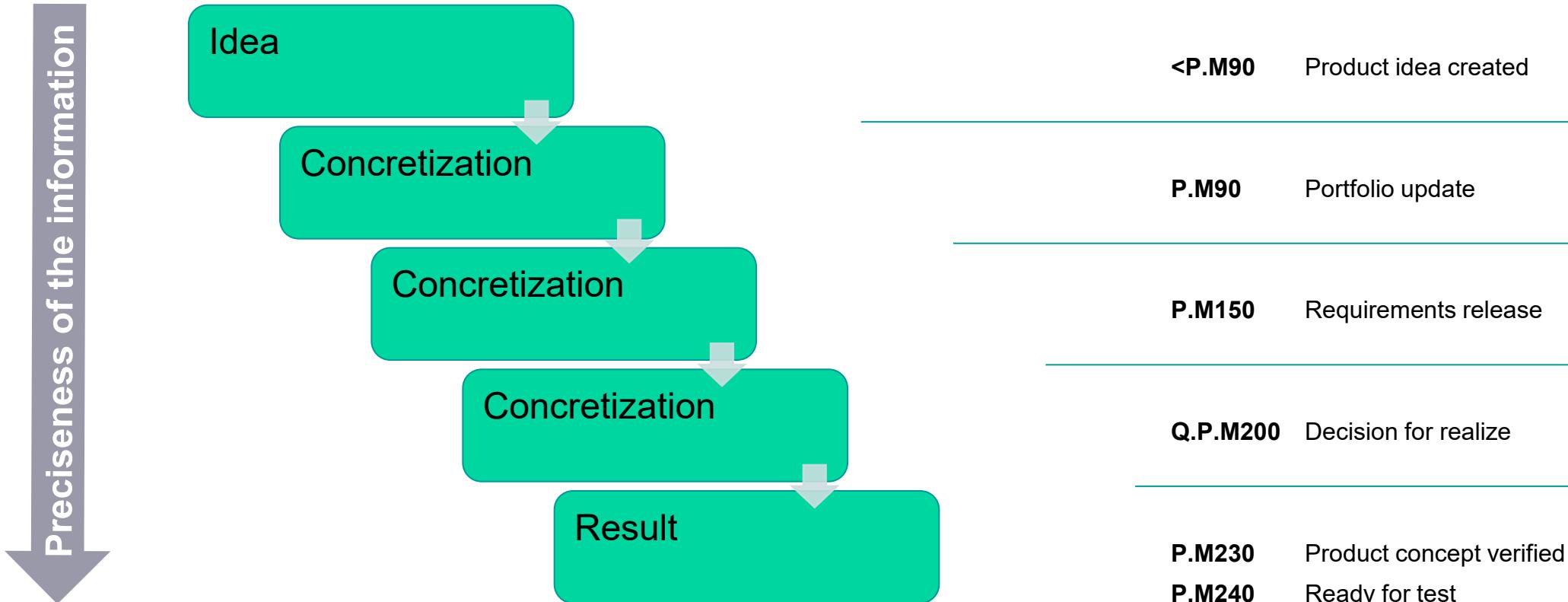
- Number of rooms
- Number of persons
- Maximum costs
- Region
- Garden

- Quantify costs more precisely
- Ensure feasibility
- Narrow down solution paths
- Minimize risk

The right information at the right time

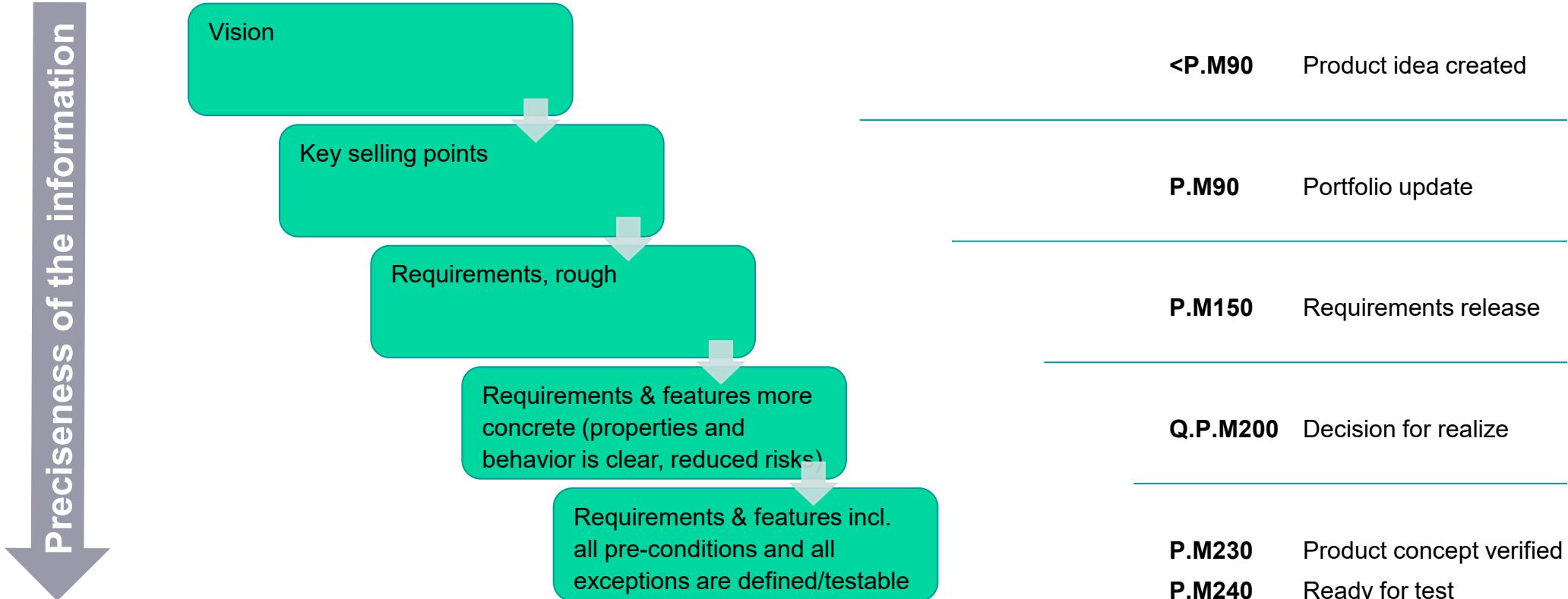
# Our Development process - Preciseness of requirements

Only Presentation



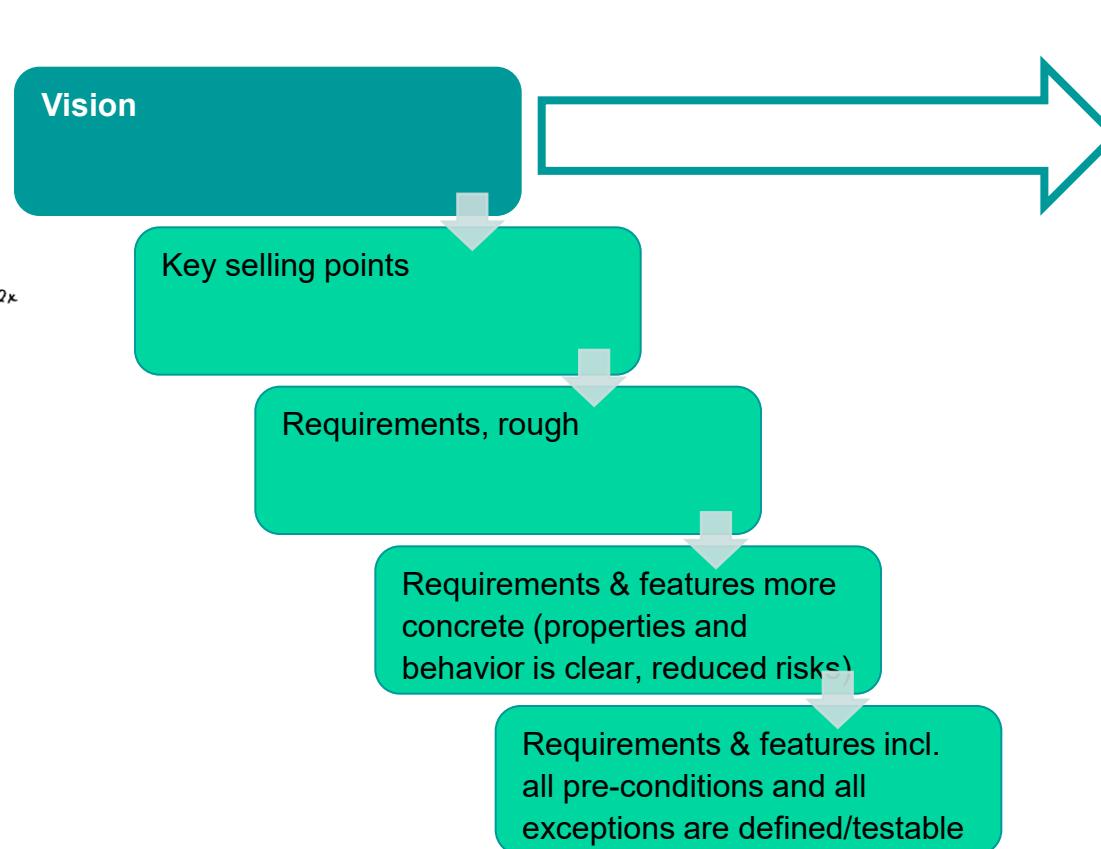
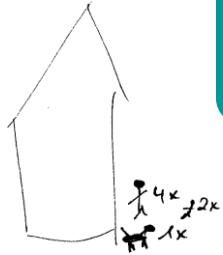
The right information at the right time

# Our Development process - Preciseness of requirements



The right information at the right time

# Vision statement

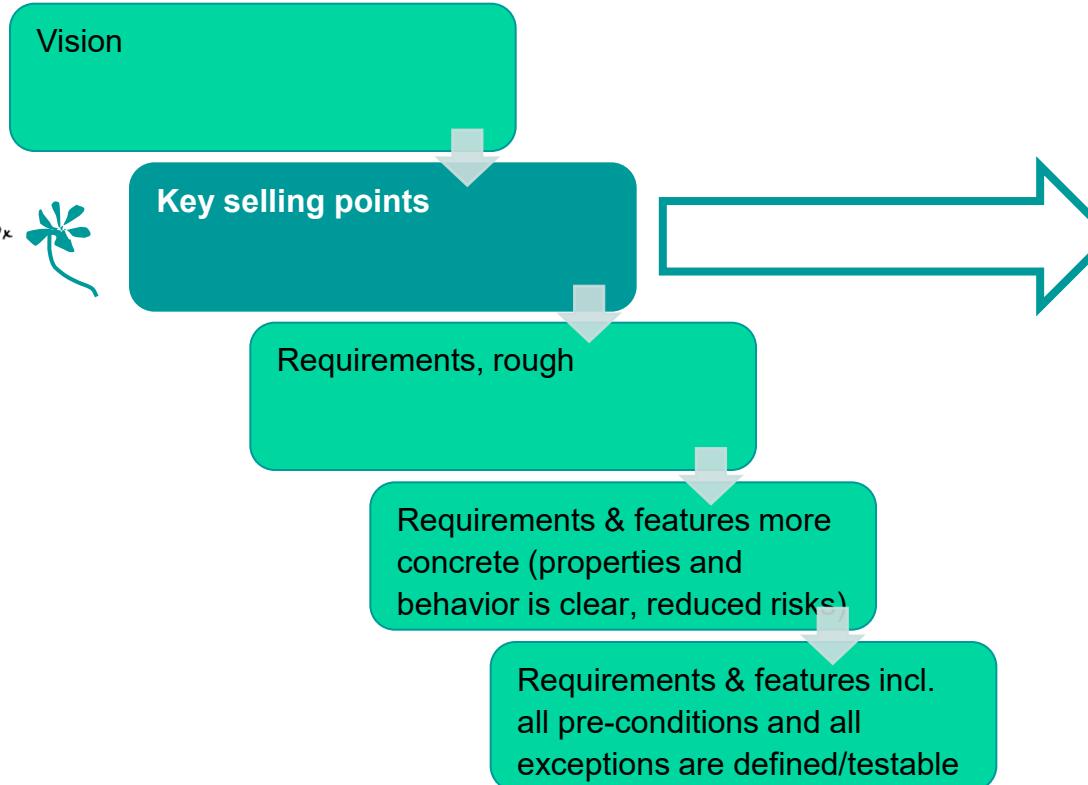
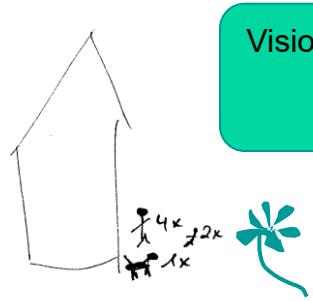


Our vision is  
to **[ultimate goal or aspiration]**  
by **[how you plan to achieve it]**,  
creating **[impact or change]**  
for **[target audience or market]**.

**Google:** "To provide access to the world's information in one click."

**Siemens:** "We make real what matters."

# Key selling points



Unique selling points

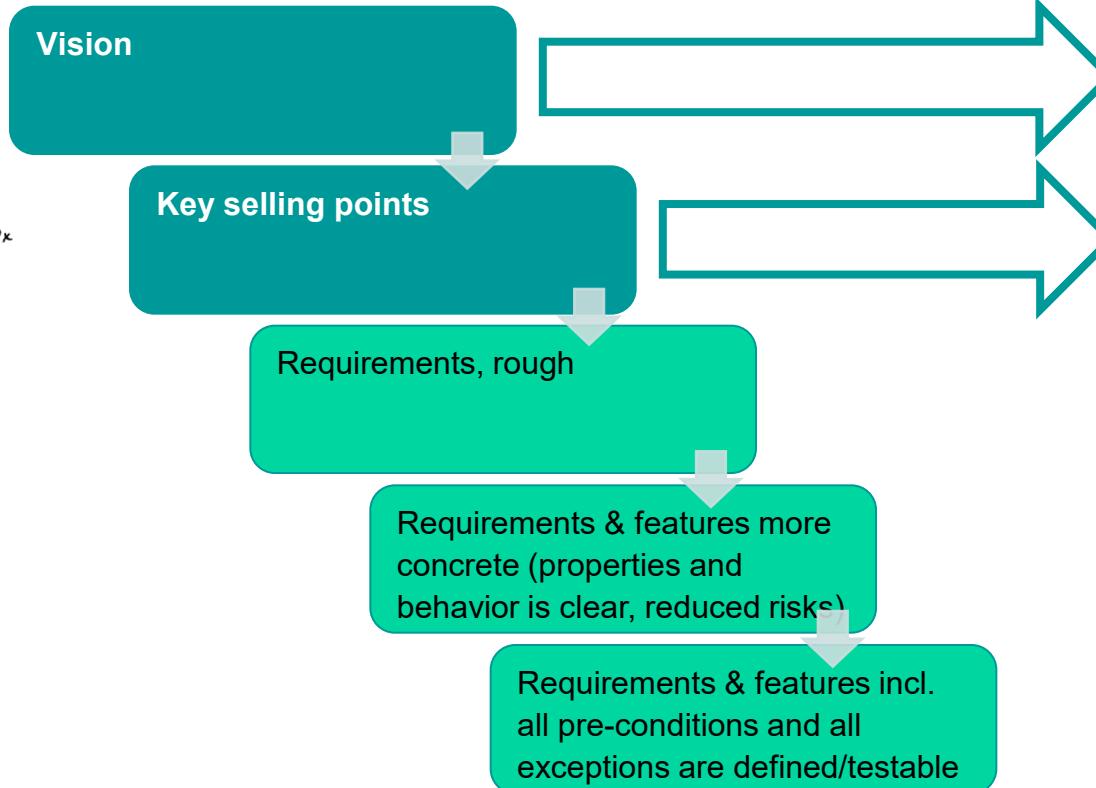
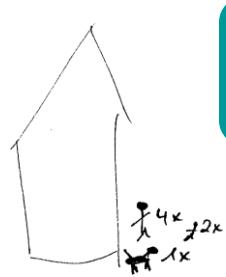
Benefits to the target customer

What sets this product apart from competitors

Potential new use cases and applications

Performance metrics

## Benefit for all readers of these information level

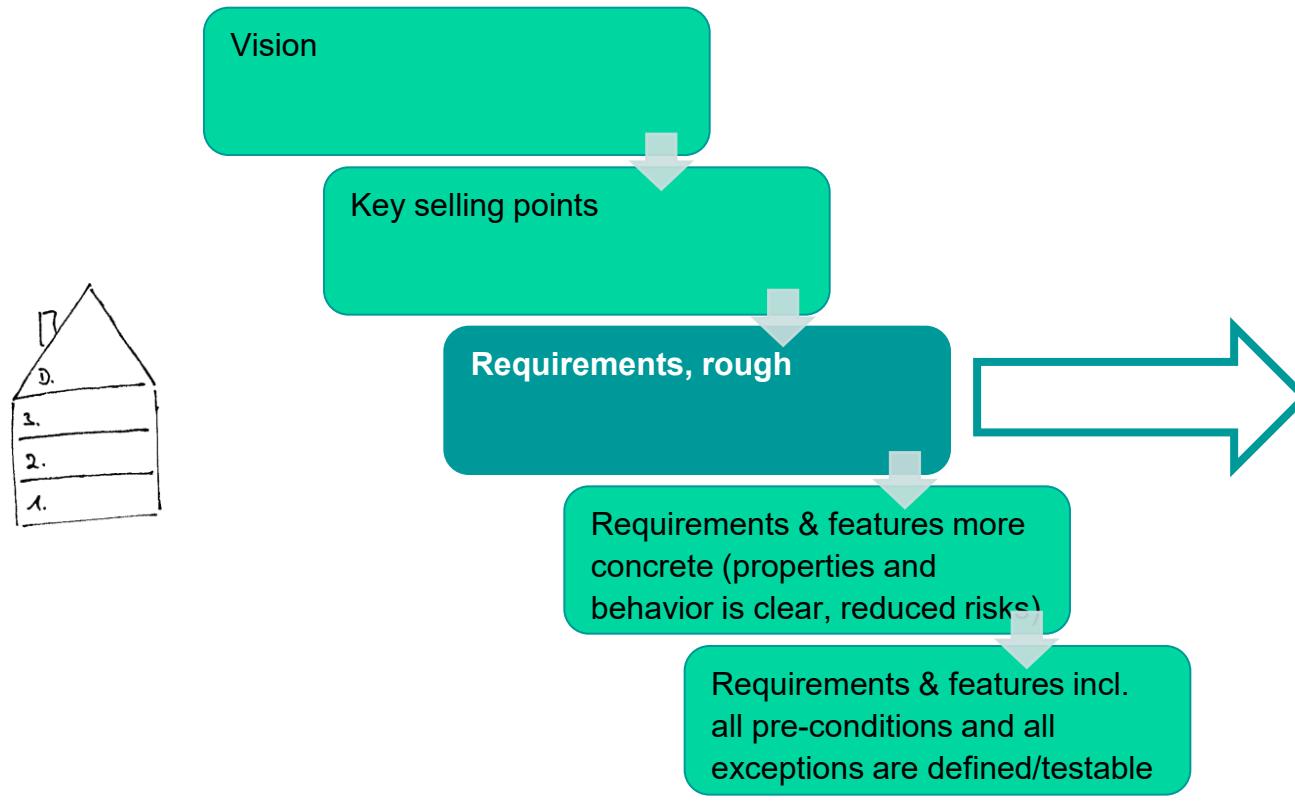


... motivates and inspires employees, stakeholders, and customers by presenting a compelling future.

... provides a clear path and focus for strategic planning and decision-making.

... ensures that all efforts and initiatives are aligned with the overarching goals and values of the organization.

## Benefit for all readers of these information level



... the PO can add more acceptance criteria

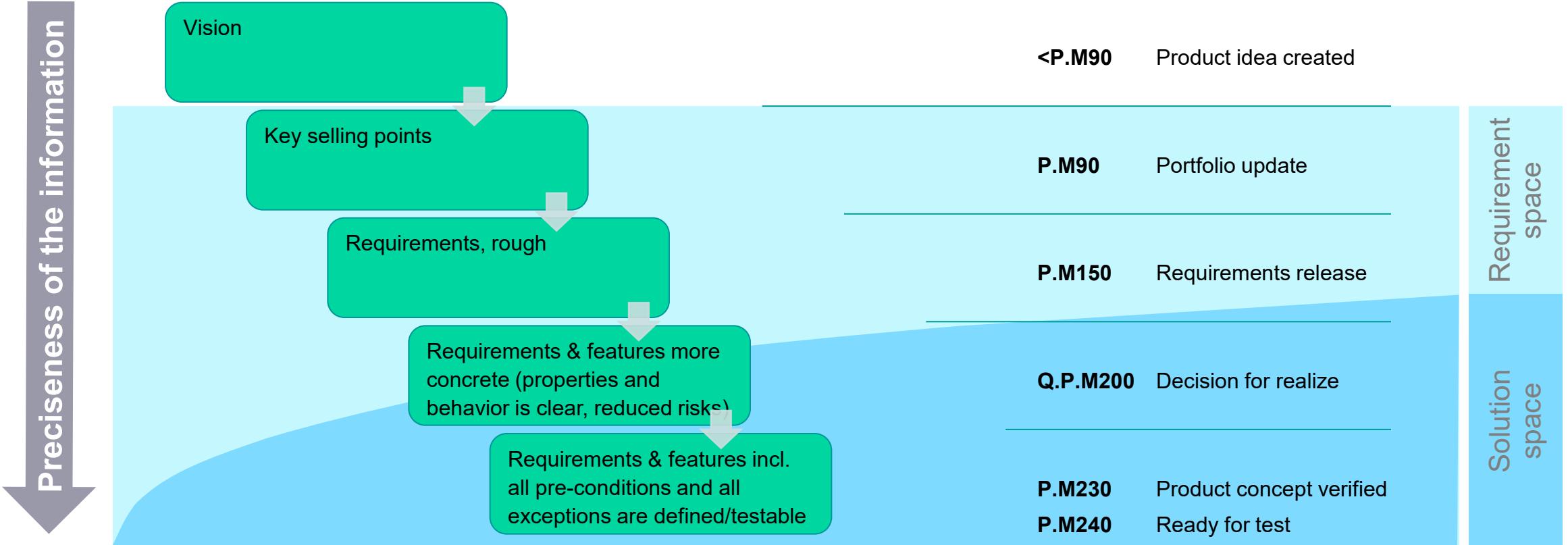
... the Architect can define the architecture in principle

... the Architect/Dev can check solutions for critical requirements

... the tester can define the first draft of a test concept

... the CPO can define the main issues of the plan for the commercial launch

# Intermediate Topic: Our Development process – Requirement Space and Solution Space



## Question



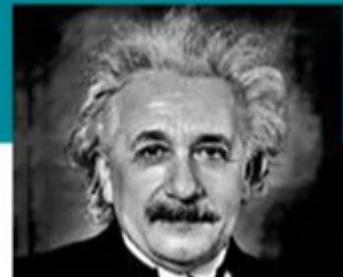
In a Requirements Workshop:

How long do you stay in the requirements space?  
In % of the whole workshop time?

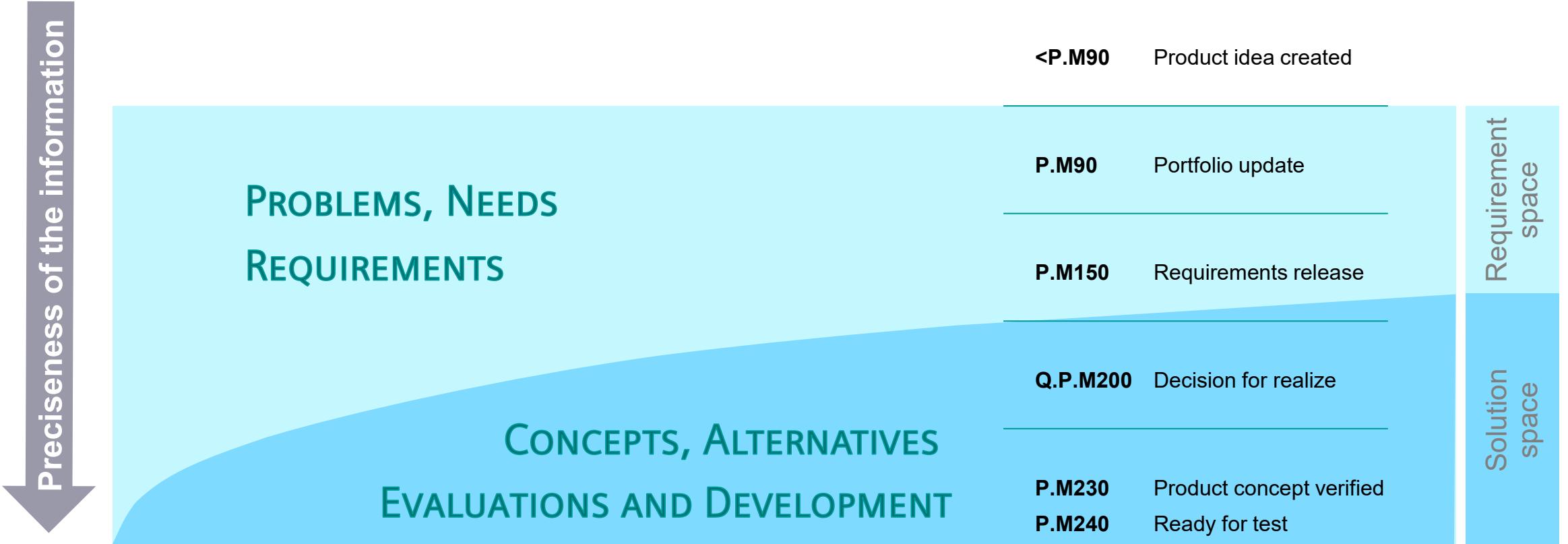
## Quote

“If I had an hour to solve a problem I'd spend 55 minutes thinking about the problem and five minutes thinking about solutions”

— Albert Einstein



# Our Development process – Requirement Space and Solution Space

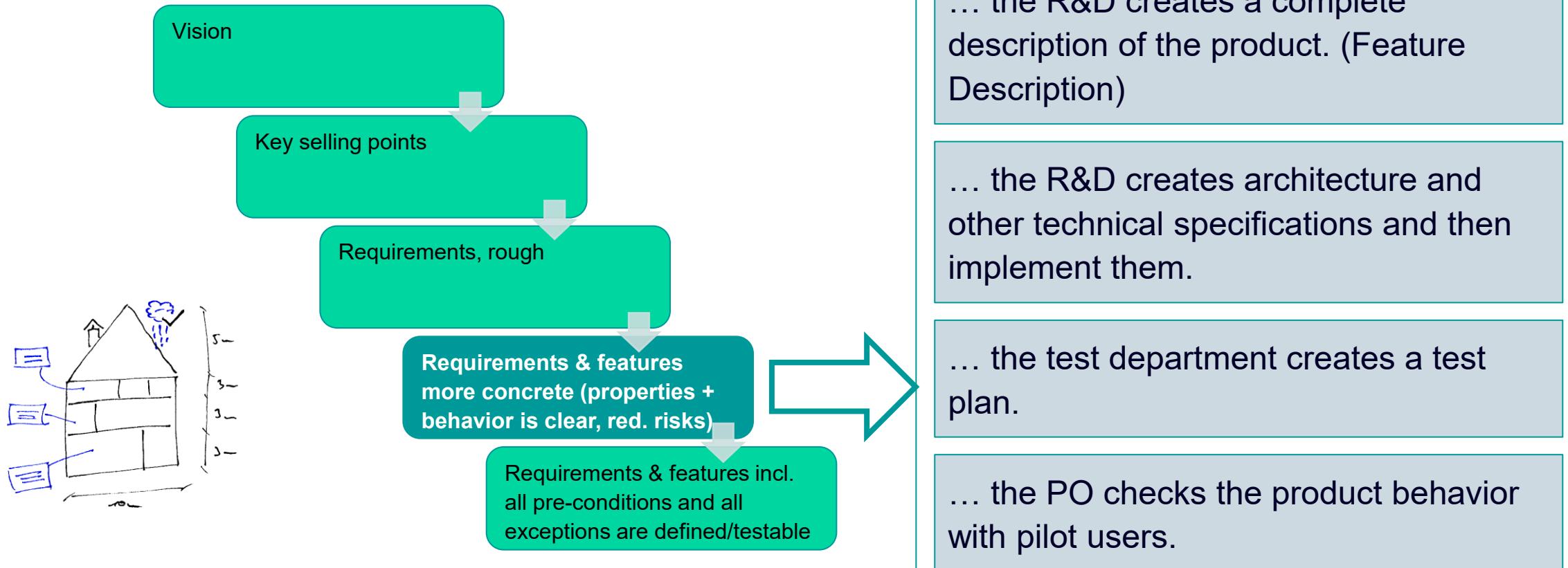


# Requirement Space and Solution Space

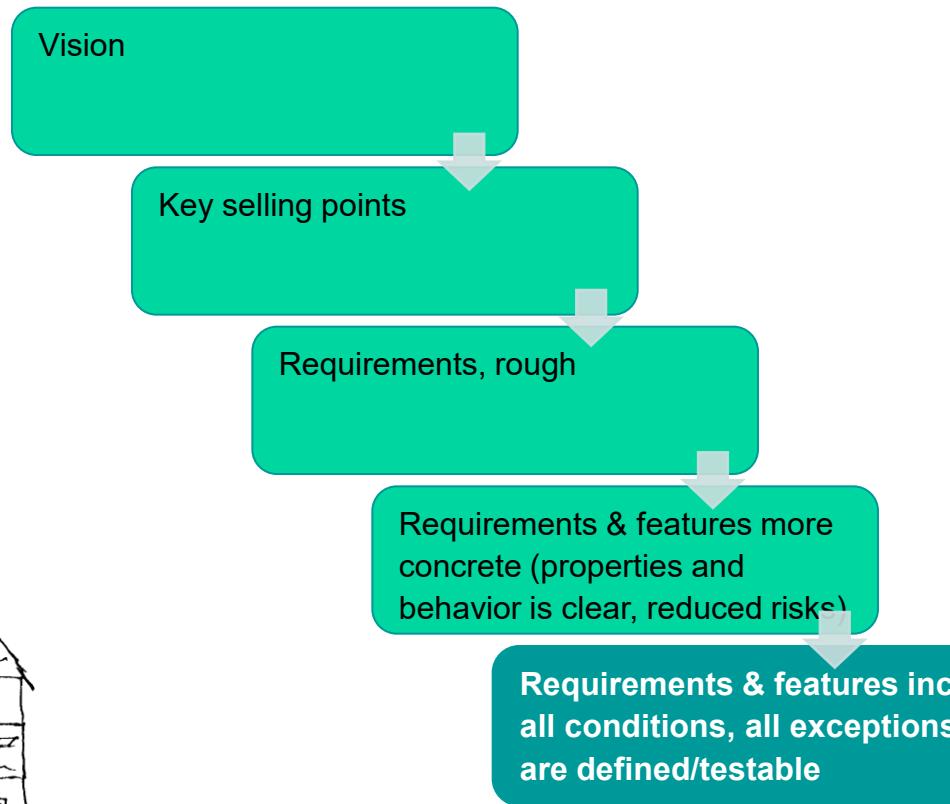
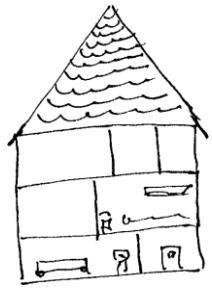
What's the problem we can solve and so generate value to the customer?



## Benefit for all readers of these information level



## Benefit for all readers of these information level



... Team defines behavior in newly recognized exception situations.

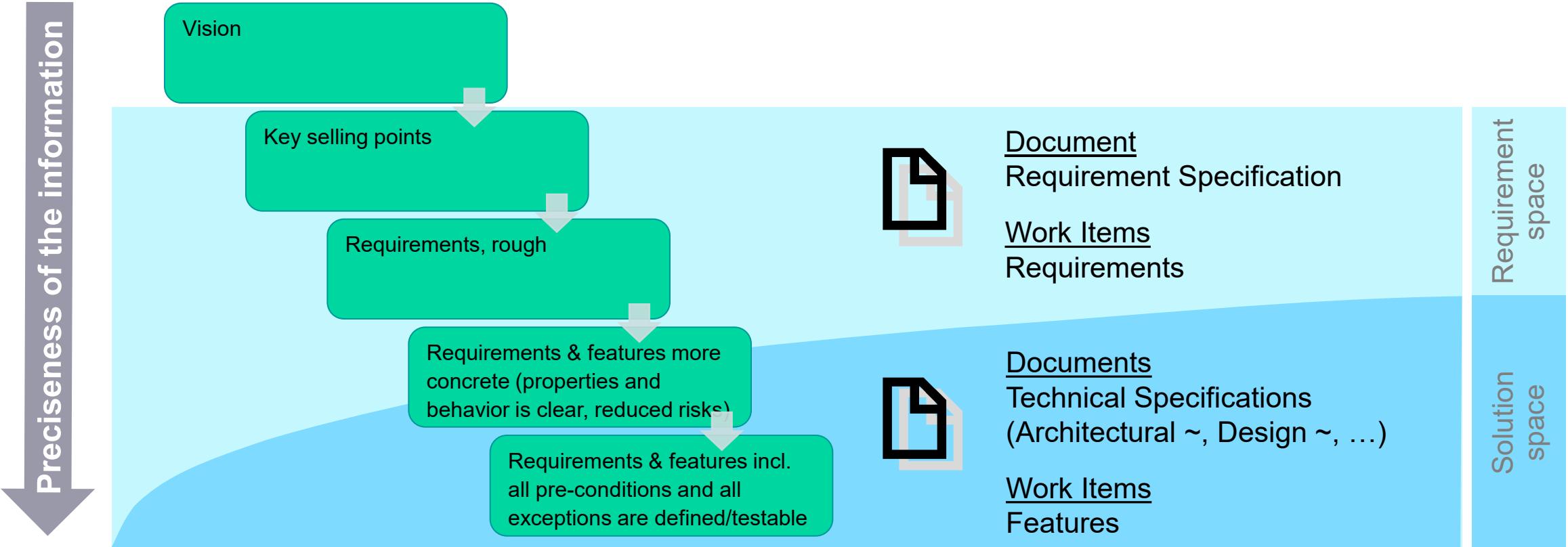
...the R&D extends or updates technical specifications

...the documentation department finalizes the user documentation.

... the test department finalizes test plan.

... the PO checks the product behavior with pilot users in corner cases.

# Our Development process – Requirement Space and Solution Space



## Real example of a requirement

Req-ID	Name	Herkunft/Verweis	Prio	Safety	Status	Betr.Modu l
RS-0053	<b>Der Anwender schließt das KNX-Modul mit Twisted Pair (Plus (+) und Minus (-) Kennzeichnung) an den KNX-Bus an.</b>		Prio_09	no	abge- stimmt	KNX

- Zu verwendende Standard Busleitung: YCYM oder J-Y(ST)Y (2 x 2 x 0,8 mm<sup>2</sup>)

## Real example of a provided solution

### 7.1.1.15 KNX-Klemme und KNX-Stiftleisten

	Name	Herkunft	Prio	Safety	Status	Bendef. 1	Bendef. 2	Bendef. 3
FS-2053	<b>Der Anwender schließt das KNX-Modul mit Twisted Pair (Plus (+) und Minus (-) Kennzeichnung) an den KNX-Bus an.</b>	RS-0053	0_must	no	---	---	---	---

Zum Anschluss des KNX-Busses wird ein spezieller WAGO Steckverbinder für KNX-Anwendungen in den Klemmenfarben rot/schwarz (rot/dunkelgrau) verwendet. Als Aufnahme für diesen Steckverbinder werden 2 Einzel-Lötstifte für die Leiterplatte benötigt.

Zur Klemme passende Stifte können von Firma Wago unter der Bestellbezeichnung 243-131 bezogen werden. Die Stiftlänge ist jedoch nur 4,5mm. So sind ggfs. Sonderstifte nötig!

Hersteller und Bestellbezeichnung werden im Lauf der Entwicklung festgelegt.

Die Stifte haben folgende Maße:

- Länge: 14,5 mm ab Oberseite der Leiterplatte
- Durchmesser: 1 mm
- Der Abstand beider Stifte beträgt: 5,75 mm
- Kontaktflächen verzinkt

Link auf die Internetseite des Herstellers der KNX-Klemmen: <http://www.wago.de/produkte/produktkatalog/leiterplattenklemmen-steckverbinder/steckbare-leiterplattenklemmen-steckverbinder-eib-busankoppler-serie-243/index.jsp>



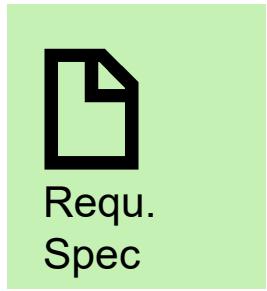
Die KNX-Klemme hat folgende Leistungsdaten:

- Kompakte 4-Leiter-KNX-Steckverbinder mit PUSH WIRE®-Anschluss
- Eindrückige Leiter direkt steckbar
- 4-Leiter-Anschluss – keine Unterbrechung der KNX-Bus-Verbindung bei Gerätetausch
- Leiterdurchmesser: 0,6 mm bis 1 mm (AWG 22 – 18)
- Temperaturbereich: -60°C bis 105°C
- Nennstrom bis 6A

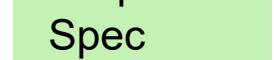
Abbildung 17: Ansicht der WAGO-KNX-Klemme

# Validity of Documents

Yesterday

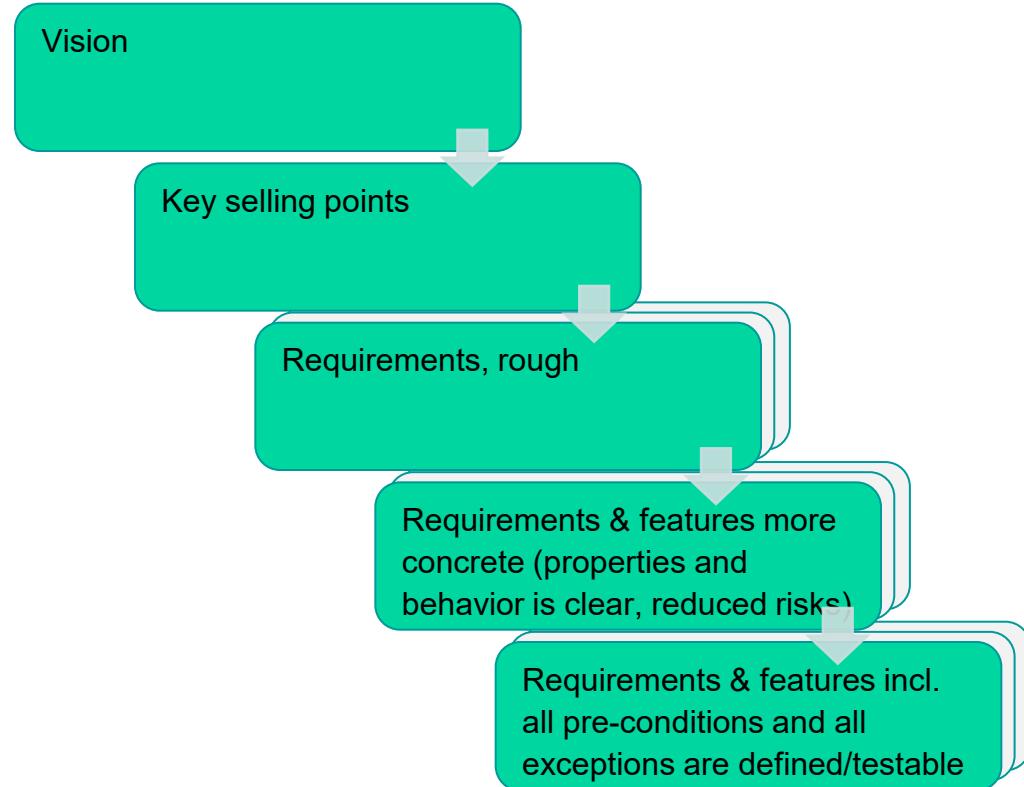


Tomorrow



P.M90	Portfolio update
P.M150	Requirements release
Q.P.M200	Decision for realize
P.M230	Product concept verified
P.M240	Ready for test
P.M500	End of Product Life Cycle

# Our Development process - Preciseness of requirements



We follow this approach  
for each Function Group

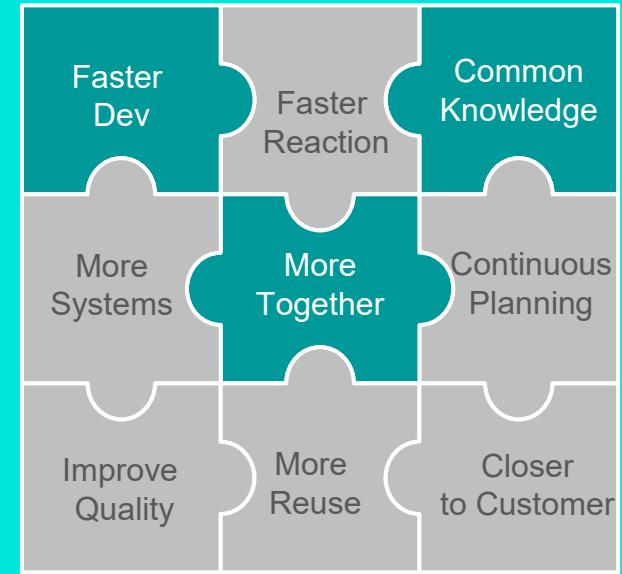
The right information at the right time



# Preciseness of Requirements

## - From Rough to Fine

What level of information do we need to be most efficient?



**Q&A**