DESIGNING AN EXPERT TOOL

FOR SUPPORTING (RE)LOCATION DECISION MAKING IN LARGE MULTINATIONAL COMPANIES

TU Delft 06/07/2018

DESIGNING AN EXPERT TOOL

CONCLUSION

FOR SUPPORTING (RE)LOCATION DECISION MAKING IN LARGE MULTINATIONAL COMPANIES

EVALUATION

THE PROBLEM

HOW THE METHOD

WHAT THE SOLUTION





THE PROBLEM

CHALLENGES IN THE REAL ESTATE MANAGEMENT

COMPLEXITY

THE RESEARCH QUESTION

CHALLENGES IN THE REAL ESTATE MANAGEMENT



Corporate Real Estate alignment



Location decision-making process



Changing needs of various stakeholders, strategies and unforeseen alterations



Many models, inaccessible for CRE managers Scarcity in expert tools

LOCATION DECISION MAKING PROBLEM



LOCATION DECISION MAKING COMPLEXITY

ASSIGNMENT DEFINITION Trigger Analysis DECISION Outcome

ASSIGNMENT DEFINITION

Market, internal and external factors

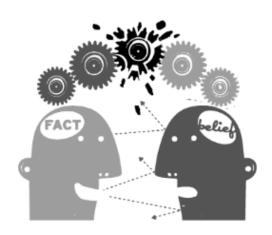
Characteristics of company

Stakeholder engagement

Driving forces and strategies



LOCATION DECISION MAKING PROBLEM



The awareness of criteria range and their relative importance is lacking in the majority of cases. High level of expertise and vast amount of knowledge is required, however, the proper supportive expert tools are in scarcity.

The knowledge is available but disperse.

THE RESEARCH QUESTION

How can an expert tool improve (re)location decision making in large multinational companies?

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APPROACH

LOCATION DECISION MAKING

THE EXPERT TOOL

LOCATION CRITERIA CASE STUDY

BUILDING AND TESTING

Empirical research: Literature study + Operational research: Creating an artifact

THE EXPERT TOOL



Expert systems (ES)
represent and reason with
knowledge of some
specialist subject



Aim at solving problems or giving advice

Can be critical for decision support



The ES tool is a software containing the basic components of an ES



Mainly stand-alone, independent systems

Can provide a support to DSS models

LOCATION CRITERIA





(RE)LOCATION PROCESS CHARACTERISTICS



REASON BEHIND LOCATION SEEKING



OBJECTIVES TO BE ACHIEVED



CRITERIA

- 110 criteria
- 160 sub-criteria

14 CATEGORIES

LOCATION CRITERIA





(RE)LOCATION PROCESS CHARACTERISTICS



REASON BEHIND LOCATION SEEKING



OBJECTIVES TO BE ACHIEVED



CRITERIA

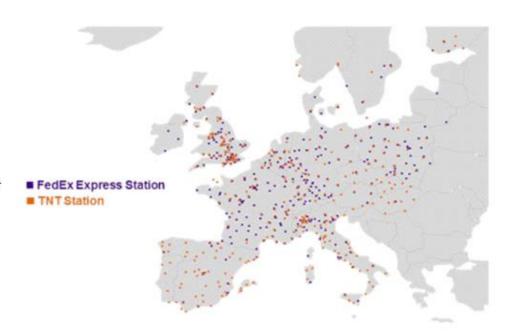
- 110 criteria
- 160 sub-criteria

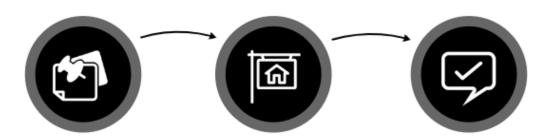
14 CATEGORIES



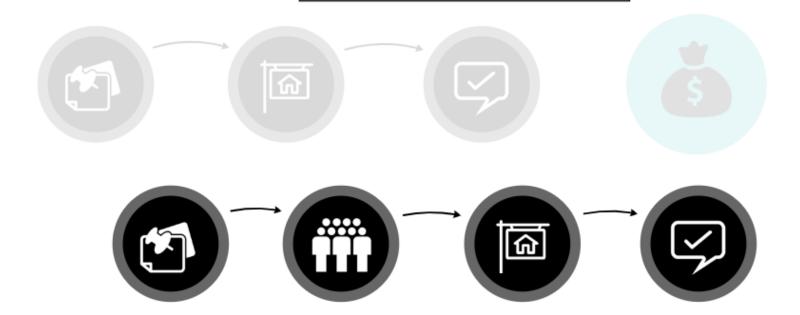
Optimising the real estate portfolio to support core business:

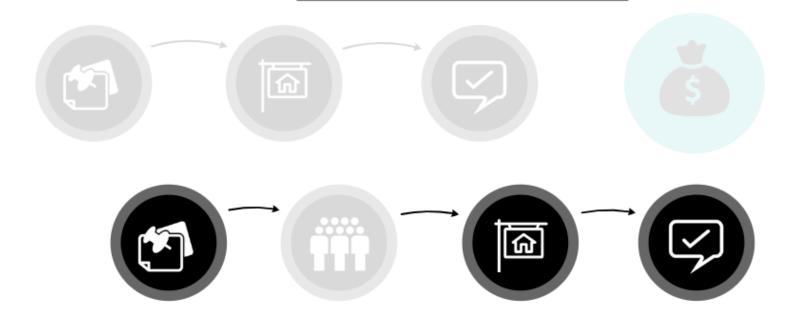
- Lower the real estate footprint
- Lower costs
- · Limit the number of occupied buildings



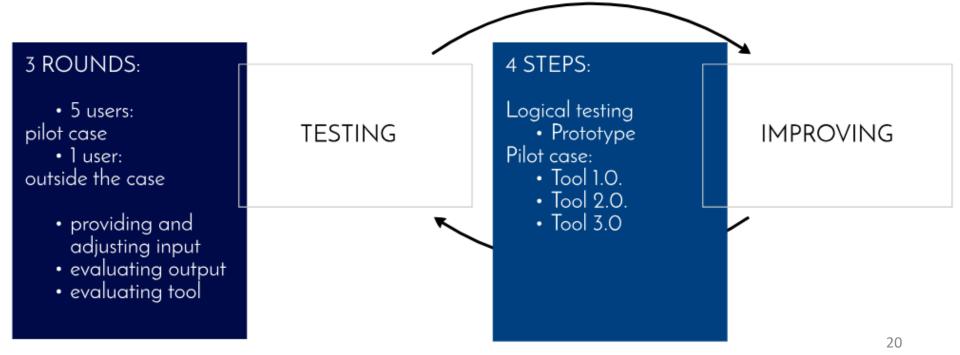








TOOL DEVELOPMENT



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STRUCTURE

THE EXPERT TOOL

To bring the scientifically based rationality, structure and knowledge to the highly emotional process

USING THE TOOL

CASE RESULTS

STRUCTURE



Provided by the decision makers

Weights assigned to determinants

THROUGHPUT

The expert tool procedure

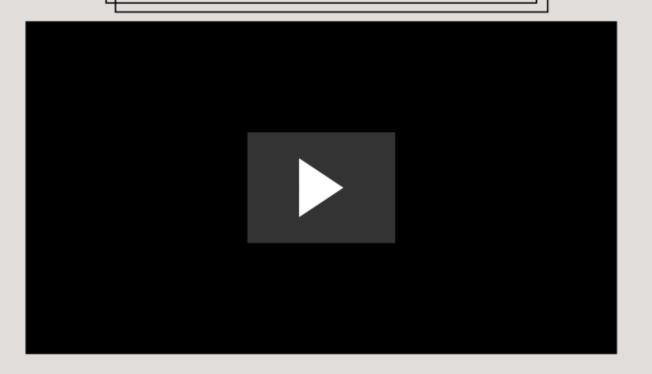
- · Linking the input to criteria
- Combining criteria from various stakeholders
- Specifying demand with preferences and constraints
- Derivation of criteria list

OUTPUT

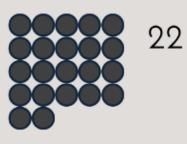
Tailored list of most relevant criteria

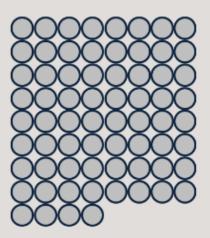


THE WALK-THROUGH



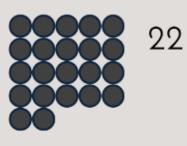
STATED CRITERIA

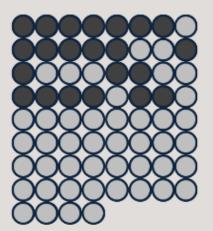




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STATED CRITERIA



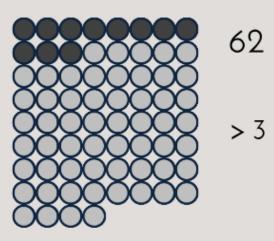


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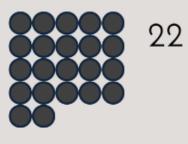
within 31

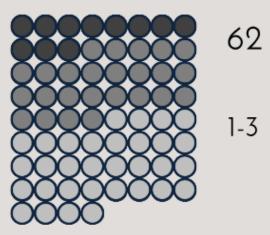
STATED CRITERIA





STATED CRITERIA





STATED CRITERIA

- Costs
- Proximity to parent company's facilities
- Company specific (spatial) needs
- Infrastructure
- Social and cultural factors
- Characteristics of a specific location
 Characteristics of markets/customers
- Labour characteristics
- Quality of life



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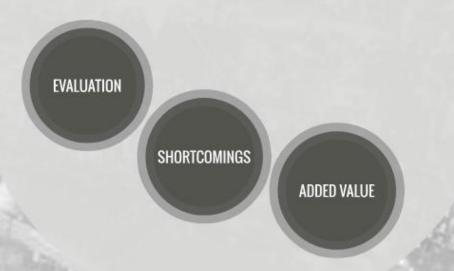
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TOOL ASSESSMENT



EFFECTIVENESS



'A big advantage of the tool is that you can work with people from various backgrounds and bring understanding of the process for them.'

'My point of view was **reflected very well**, of course. But for me the **combination of outcome from all stakeholders** is most interesting.'

EXPERIENCE



'I would **absolutely recommend** using it in the decision making process. It could be **very beneficial**.'

'The tool **idea is very simple** and at the same time it surprisingly gives you **so much insight into the complexity** of the problem. That is what I really like.'



ATTRACTIVENESS



'You have ability to express of what you find important and the tool incorporates it to this wider pool, where your idea, your voice is being heard. In a normal discussion it would not be possible for everyone. It is empowering.'

With your tool you let the decision maker deep-dive in the problem. For me this is not really making things easier. This might lead to missing the objective of "supporting". On the other hand you provide deeper understanding and help to underpin the needs and 'the gut feel'

SHORTCOMINGS







ADDED VALUE











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HOW?



Increasing level of transparency among decision makers

Limiting the information inequalities and biases



Gathering and structuring the knowledge



Raising awareness of real demand coming from various parts of the company

Underpinning priorities

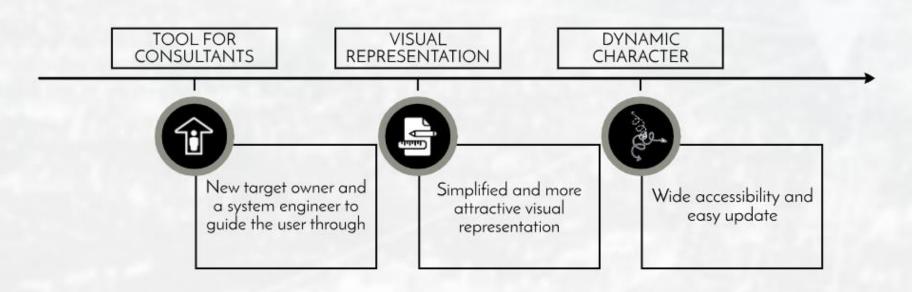
Understanding 'WHY'



Raising knowledge level and the acceptance of decision

Providing a feeling of empowerment to the stakeholders

WHAT'S NEXT?



THANK YOU

