

Measuring the added value in Corporate Real Estate alignment by using the Preference-based Accommodation Strategy design procedure

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Measuring added value

in CRE alignment with a PAS design procedure

ERES conference, June, 9th 2016

Arkesteijn, M.H., R. Binnekamp, H. de Jonge

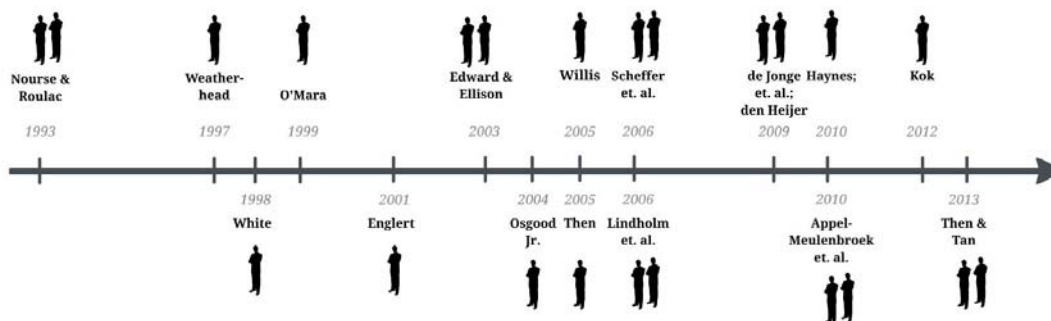


TU Delft

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Problem statement

CRE alignment long-standing issue



(Arkesteijn and Heywood, 2013)

- Want to optimally add value with CRE to the organisation
- How are alternatives generated?
- How is the optimum chosen?

TU Delft

View on value

Value = quality = utility = preference

They have in common that they all are

about 'a judgement' about 'something'
by 'someone'

Problem statement

???



What is your overall satisfaction with our product?

Not at all satisfied 1 2 3 4 5 Extremely satisfied



What is your overall satisfaction with our product?

Not at all satisfied 1 2 3 4 5 Extremely satisfied



What is your overall satisfaction with our product?

Not at all satisfied 1 2 3 4 5 Extremely satisfied

Problem statement

Arkesteijn (et al 2015)

conclude that currently no CRE alignment model exists that allows designing an alternative, makes use of scales for direct measurement of added value/preference by the stakeholders and allows the aggregation of individual ratings into an overall performance rating

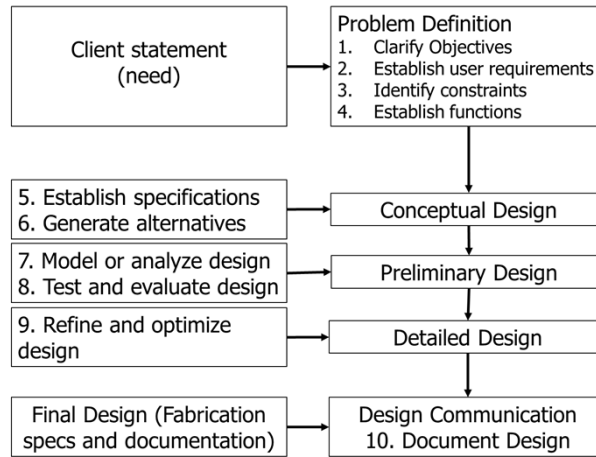
Preference-based accommodation strategy inter-actor design procedure

(Arkesteijn & Binnekamp 2012)

- Step 1:** Specify variables
- Step 2:** Rate preferences per variable
- Step 3:** Assign weights to variables
- Step 4:** Determine design constraints
- Step 5:** Generate design alternatives
- Step 6:** Select optimal design alternative

Research methodology

1. Are stakeholders able to determine their preferences as prescribed?
2. Are stakeholders able to optimize the design result?
3. How do the stakeholders evaluate the PAS procedure?



(Dym & Little, 2004)



Two pilot studies PAS procedure

Delft University of Technology

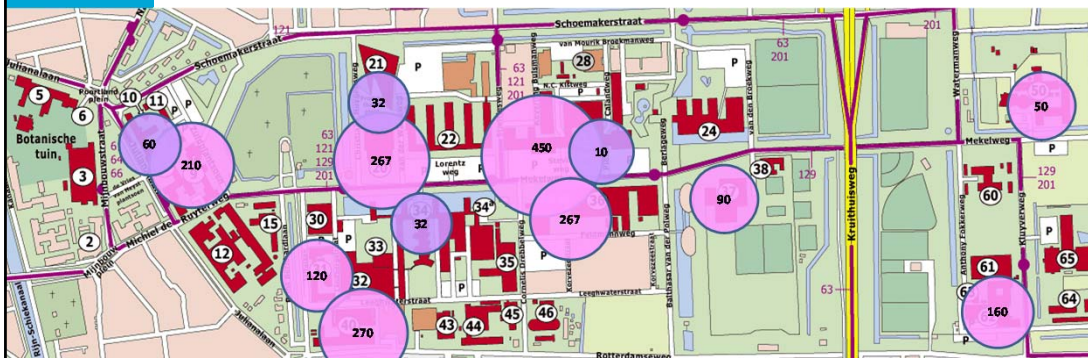
Food Facilities TU Delft

ERES 2016

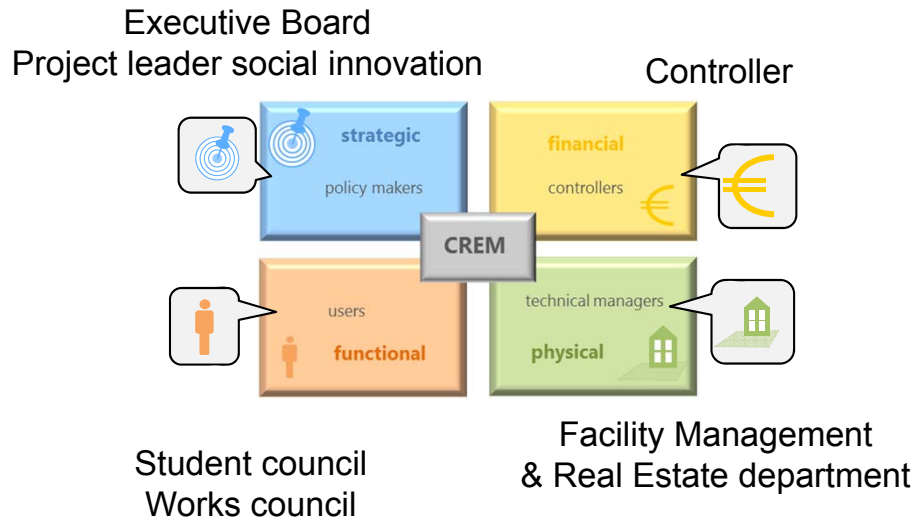
Lecture Halls TU Delft

ERES 2014

Current supply does not meet requirements



Results: selecting stakeholders



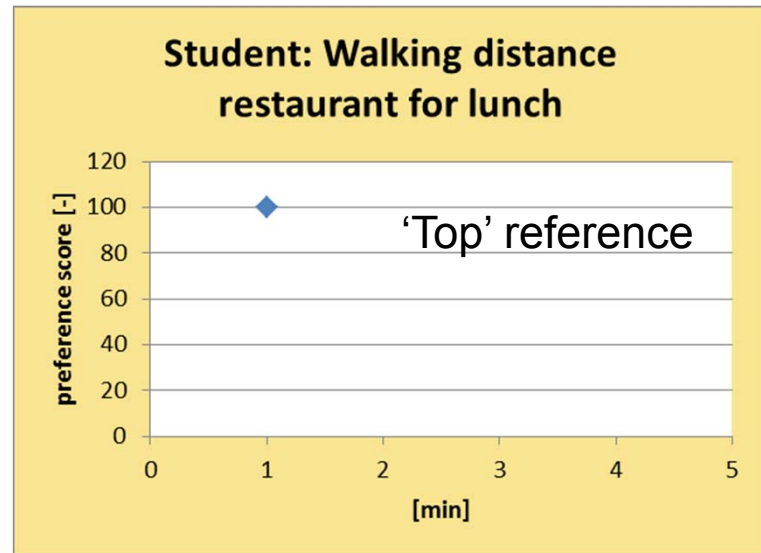
Step 1: Specify a decision variable

Student: "I want to walk as little possible to the restaurant for lunch"

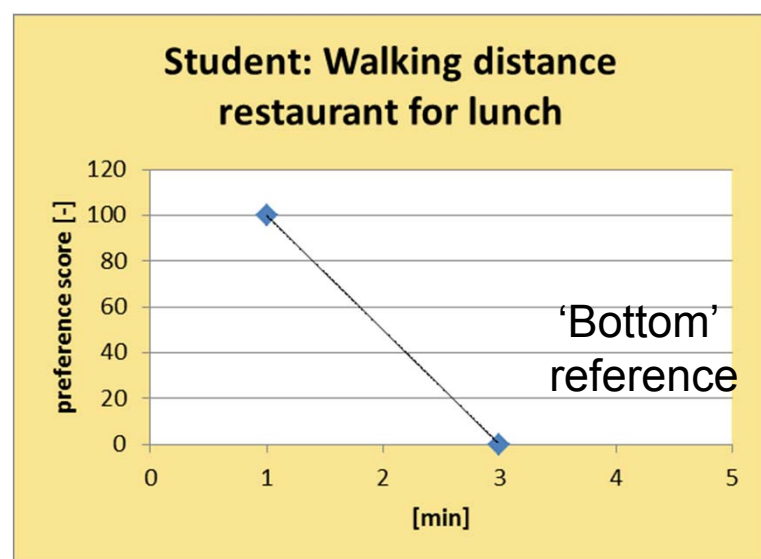
Decision variable: walking distance to restaurant for lunch

Go to step 2: Rate preferences

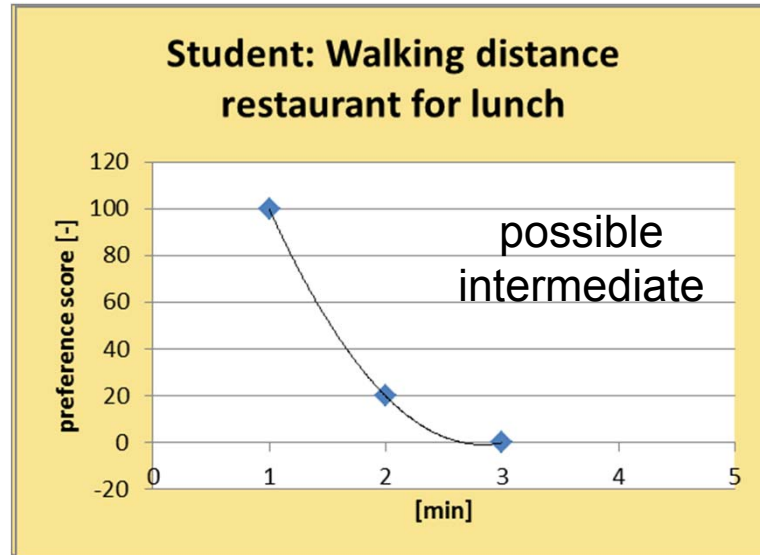
Step 2: Rate preferences per variable



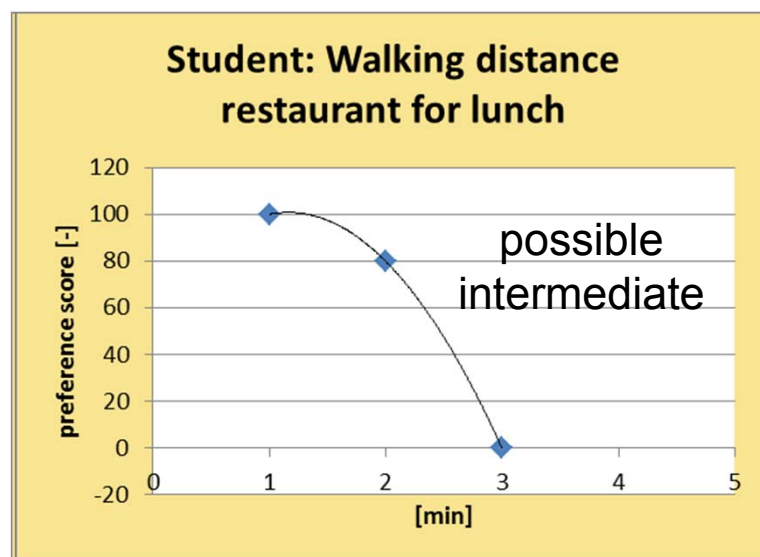
Step 2: Rate preferences per variable



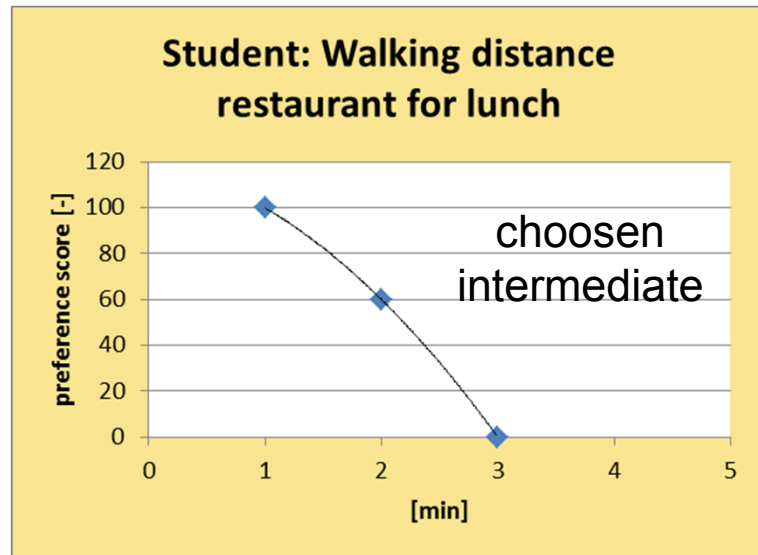
Step 1: Specify a decision variable



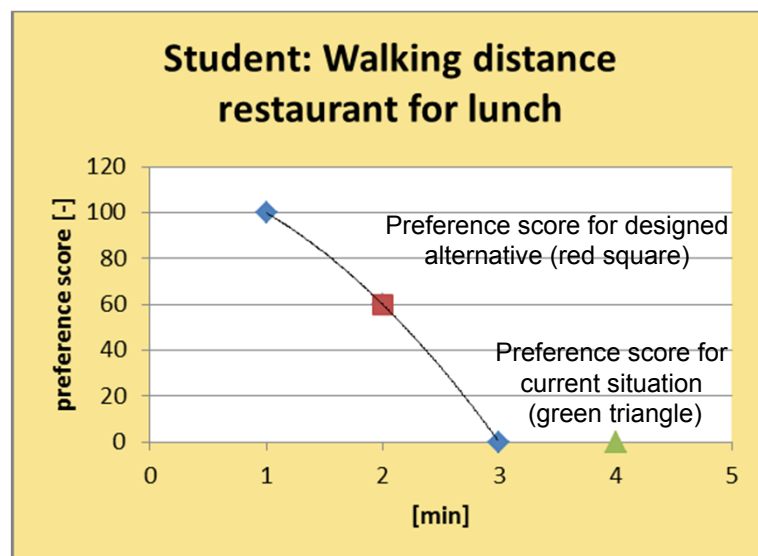
Step 1: Specify a decision variable



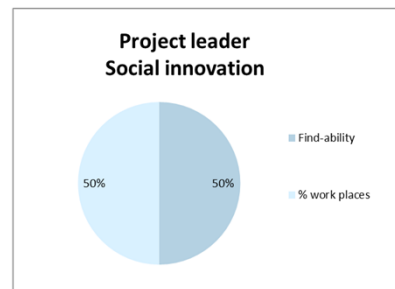
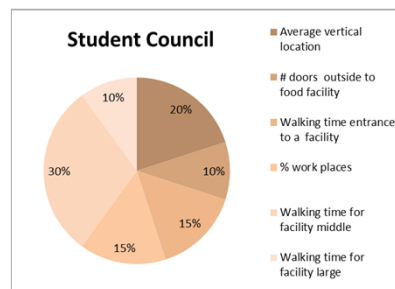
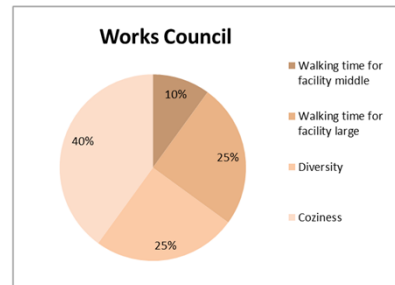
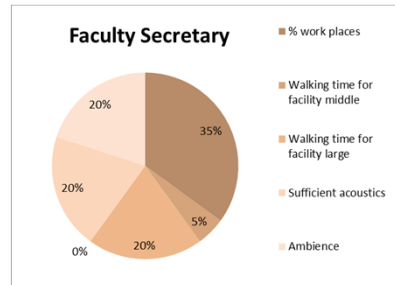
Step 1: Specify a decision variable



Step 1: Specify a decision variable



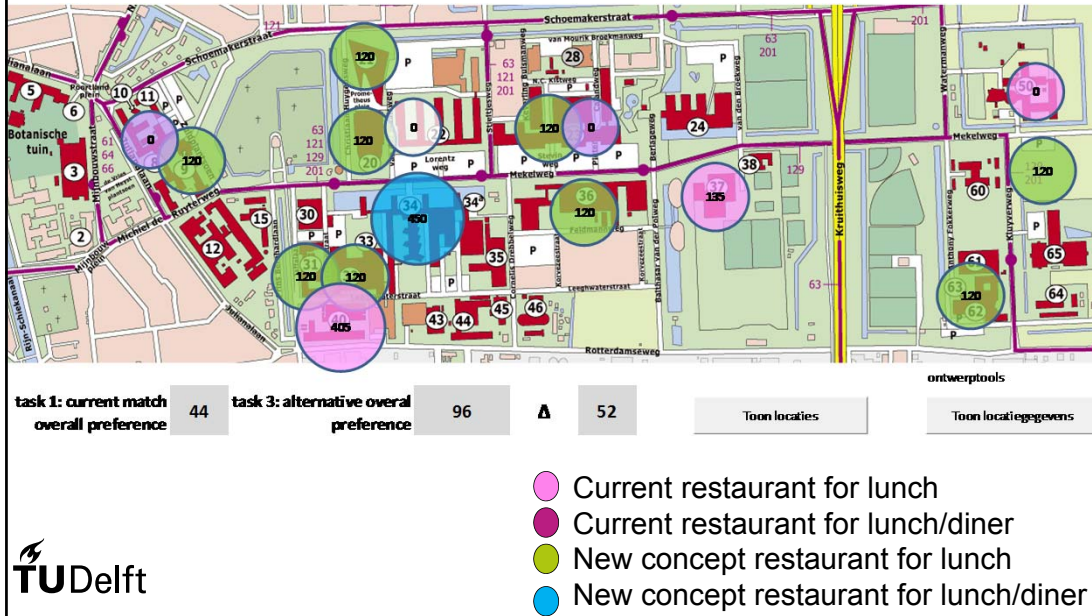
Step 3: Assigning Weights



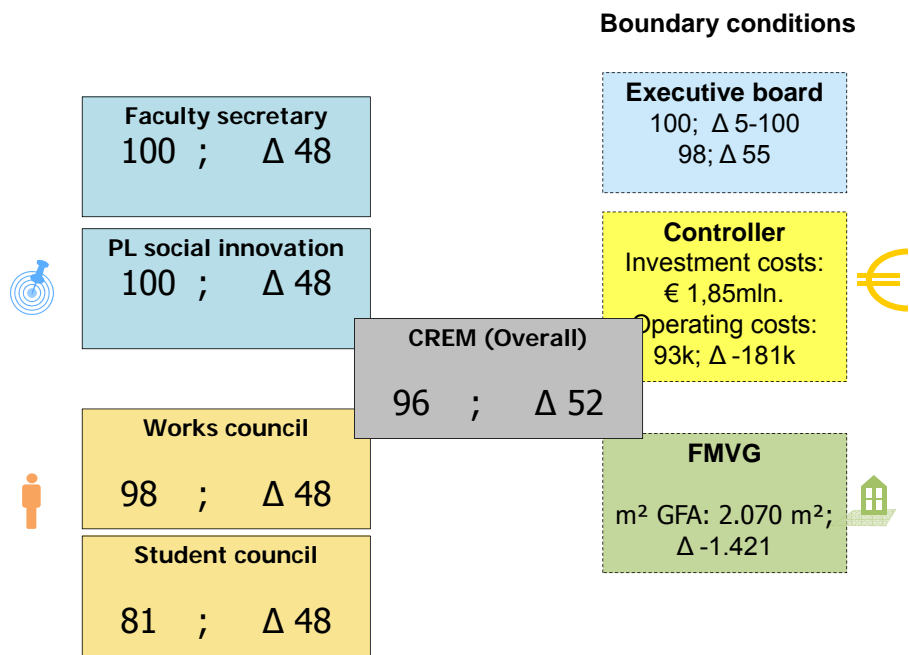
Step 4: Determining Design Constraints

Decision maker	Design constraint	Value
executive board	1. Minimum availability of food facility for lunch within the maximum walking time	95%
	2. Minimum availability of facility for lunch and dinner within the maximum walking time	95%
	3. Minimum availability of facility faculty club within the maximum walking time	95%
	4. Minimum average satisfaction of the preference score on the criteria acoustics, ambience and coziness	40%
Facility Management and Real Estate	5. Maximum investment costs	1.850.000 euro
	6. Maximum operational costs	500.000 euro

Step 5: Generating design alternatives



Step 6: Select optimal design alternative



Research answers

1. Stakeholders were able to determine their preferences as prescribed
2. Stakeholders were able to optimize the design result
3. Stakeholders valued the PAS procedure

Evaluation

- Experiences with the model

Project leader social innovation: could not imagine to determine preference this way in the beginning. Later on: most enthusiastic.

- Attractiveness of the method

Faculty Secretary: did not use any 'strategic' games, because he was taken step by step through this approach. Satisfied with the solution.

- Perception of effectiveness of the method

Student: The process is much faster and more solution-oriented. Like to use the model continuously.