





Exploration of the quality and financial performance of Dutch intramural health care real estate.

Researchers







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- The population of Europe is aging. More people are getting older and more elderly get a very high age -> growing need for care.
- Costs of health care are increasing -> political pressure.
- The Dutch government changed the care system into a regulated market system:
 - more market, less government
 - i.e. less building regulations, no funding of real estate but integrated prices of care including real estate,
 - substitution of intramural care by home care where possible.
- → Financial pressure: no governmental funding
- → Earnings for real estate by income from care activities

Context

- Higher consumer demands on functional and technical quality and experience value
- Due to extramuralisation: target groups with lower need for care disappear, people who stay or come in have a higher need for care
- Misfit between demand and current supply
- → Qualitative pressure: need for better buildings

Research question & Purpose

Research question

What is the current quality and financial performance of Dutch elderly health care institutions and what may be the impact of the changing context, now and in the future?

Purpose

To gain a better understanding of the quality and financial performance of Dutch (elderly) health care real estate and to explore what is needed to bridge the gap between the current supply and future demand.

Research Methods

- Online survey with 40 questions
- Survey send to 1.000 contacts by email
- Announcement of the survey on LinkedIn, different websites and a mailing by the branch organization
- Data collection in April and May 2017
- Multiple reminders by e-mail
- Contact by telephone with respondents for completing the questions

Response

Low response <-> preliminary conclusions

Quality questions (Q)

75 respondents

- 23 no answers
- 7 doubles
- 2 double doubles
- 3 partial answers
- 3 questionable answers

Sample 1:

- * 37 respondents
- * 277 objects

Financial questions (€)

75 respondents

- 23 no answers
- 7 doubles
- 2 double doubles
- 33 partial answers

Sample 2:

- * 9 respondents
- * 103 objects

Q & €

Combined

Sample 3:

- * 9 respondents
- * 103 objects

Respondents

Sample 1 - 37 Organisations

• 277 objects

Smallest: 1 objectLargest: 25 objects

• Most: 1

48% Owned / 52% Rented

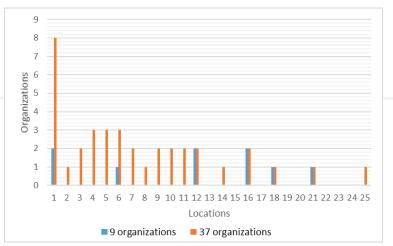
Sample 2 – 9 Organisations

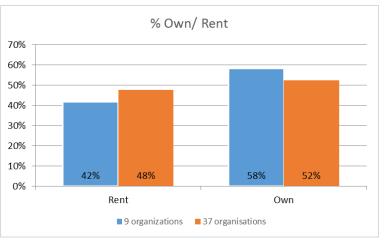
• 103 objects

Smallest: 1 objectLargest: 21 objects

Most: 1, 12 and 16 objects (equal)

42% Owned / 58% Rented





Survey Questions

To collect data on quality and investments

- General questions (4)
 - Name and address organization, names locations, own/ rent and description of strategy for each location
- Qualitative questions (23), divided in 5 themes
 - Functionality
 - Technical quality
 - Experience value
 - Location
 - Overall mark of the quality
- Financial quantitative questions (13), divided in
 - Parameters for Real Estate Exploitation (costst & returns)
 - Parameters for Real Estate NPV (cash flow)
 - Parameters for book value (financial statements 2016)

Scores on quality – based on sample 1

Two types of questions

a. Multiple choice questions

- Score in this question:
 - Max. score per question = 5
 - Min. score per question = 1
- Score in this question = 3 / 5 = 60%

What are the measures of the private living space?

| *5. Hoe groot is het oppervlakte van de woonruimte? | | | | | | | |
|---|------------|-----------------------|------------------------|----------------------|--|--|--|
| | | Kleiner dan 24 m2 NVO | Tussen de 25-38 m2 NVO | Groter dan 38 m2 NVO | | | |
| | Building X | 1 ° | 3 · | 5 ° | | | |

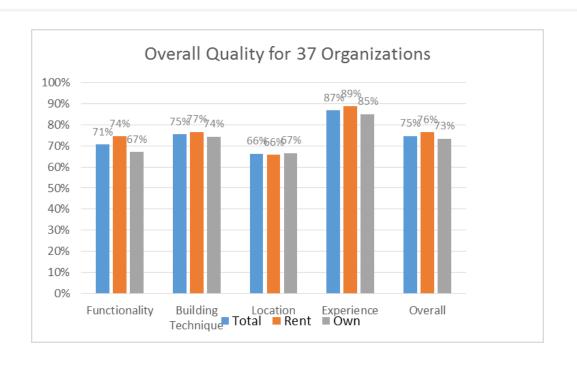
b. Multiple Answer questions

- Score is this question:
 - 1 point nothing marked
 - 2 points only public
 - 3 points Shared or Shared & Public
 - 4 points Individual or Ind. & Public
 - 5 points all three marked
- Score in this question = 4/5 = 80%

Does the house have an individual, shared or public outdoor space?

| | Beschikken de woonruimten over een individuele, gedeelde en/ of openbare buitenruimte? (Meerdere antwoorden mogelijk) | | | | | |
|---------|---|-------------|-----------------------|----------|--|--|
| | | Individueel | Gedeelde buitenruimte | Openbaar | | |
| Buildin | g X | | | | | |

Overall mark of quality per theme



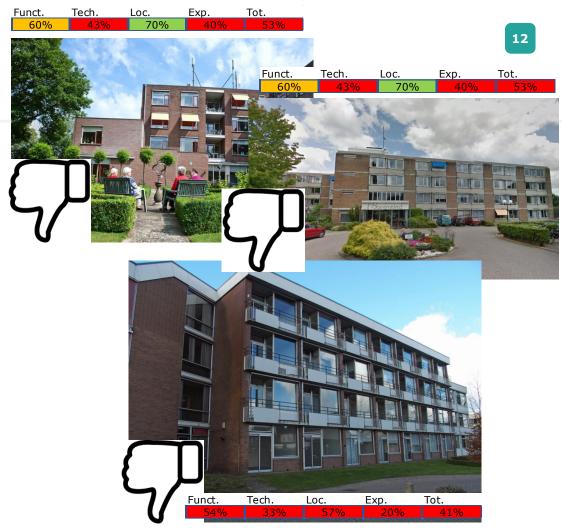
| | Functionality | Buil ding Technique | Location | Experience | Overall |
|-------------------|---------------|------------------------|----------|------------|---------|
| Avarage | 71% | 75% | 66% | 87% | 75% |
| Stanard deveation | 0,1584 | 0,1618 | 0,1380 | 0,1773 | 0,1092 |
| Min | 23% | 20% | 23% | 20% | 39% |
| Max | 100% | 100% | 100% | 100% | 97% |
| Median | 71% | 77% | 67% | 100% | 76% |

Sample 1 - 37 Organisations

- Overall 75%
- Location has lowest score
- **Experience** has highest score
- Rented buildings score higher, except for location (scores for rent and owned are equal); especially for functionality

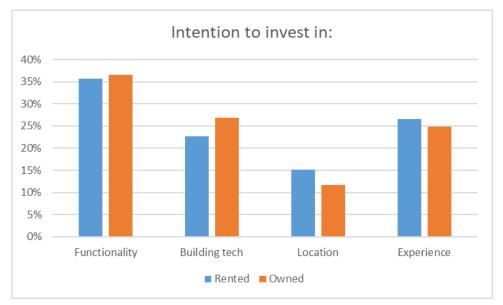
Examples





Intention to invest

Dependent of current quality



| Investing | Rented | Owned | Average |
|---------------|--------|-------|---------|
| Functionality | 36% | 37% | 36% |
| Building tech | 23% | 27% | 25% |
| Location | 15% | 12% | 13% |
| Experience | 27% | 25% | 26% |

Sample 1 - 37 Organisations

- Functionality is most wanted to invest in
- Location is the least wanted to invest in (maybe due to out of influence).

Financial parameters

Based on Sample 2 - 9 organisations, 103 objects

What happens when government reduces funding?

| All objects - without reduction | n m2 | | Book value | Net Present Value |
|---------------------------------|---------|-------|-------------|-------------------|
| Sum | 660.666 | 7.865 | 280.906.585 | 485.849.019 |
| Mean | 6.414 | 76 | 2.727.248 | 4.716.981 |
| St.dev | 4.630 | 52 | 4.713.944 | 6.722.512 |
| Median | 5.700 | 70 | 417.027 | 2.087.419 |
| Range | 21.246 | 250 | 29.325.000 | 40.400.943 |

| All objects - 15% reduction | m2 | Cap Book value | | Net Present Value | |
|-----------------------------|-----------|----------------|------------|-------------------|--|
| Sun | 1 660.666 | 7.865 | 280.906.58 | 382.559.753 | |
| Mea | n 6.414 | 76 | 2.727.248 | 3.714.1/2 | |
| St.de | v 4.630 | 52 | 4.713.94 | 5.739.782 | |
| Media | n 5.700 | 70 | 417.02 | 7 1.614.835 | |
| Range | e 21.246 | 250 | 29.325.000 | 37.553.033 | |

• All = 103 objects

no problem for 67 objects

• 29 objects show already negative numbers, and get worse = 28%= 7%

7 objects switch from positive to negative numbers

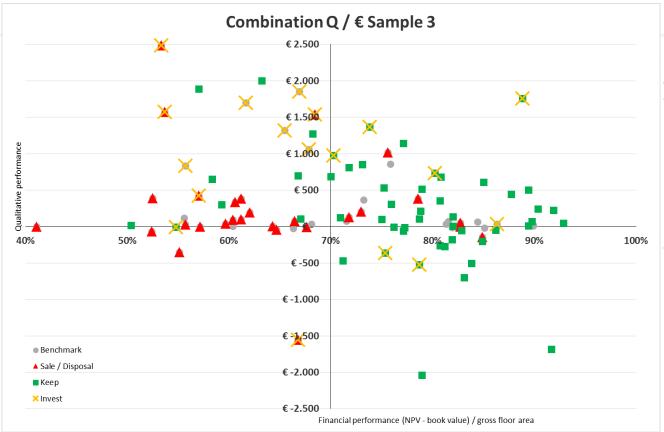
• Total loss of NPV, because of 15% reduction (decrease of 21%)

= € 103,29 mln

= 100%

= 65%

Strategy- based on sample 3

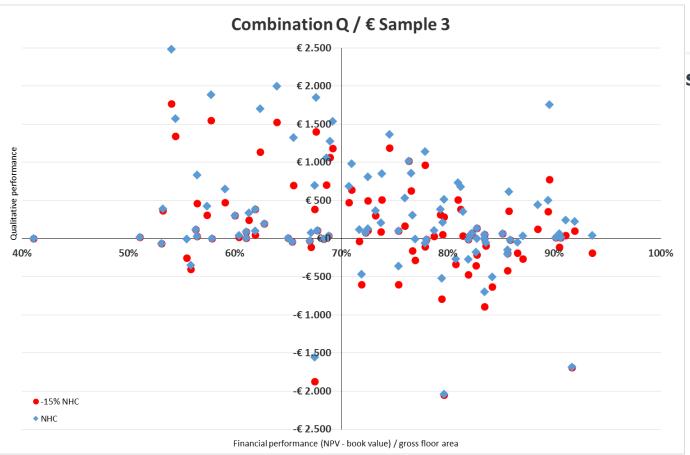


Sample 3 = 9 OrganisationsSample shown is without reduction of

Sample shown is without reduction of income. Strategy was an open question.

- ▲ 80% of strategies = Keep (52%) or Sell (28%)
 - Improvements are only 20% of the strategies but is conflicting with the intention to invest in (36%).
- for 17,5% of all objects an investment budget is known/reserved, linked to different strategies.
- Most of Sell objects have low quality
- Most of keep objects have high quality

Combined data – based on sample 3

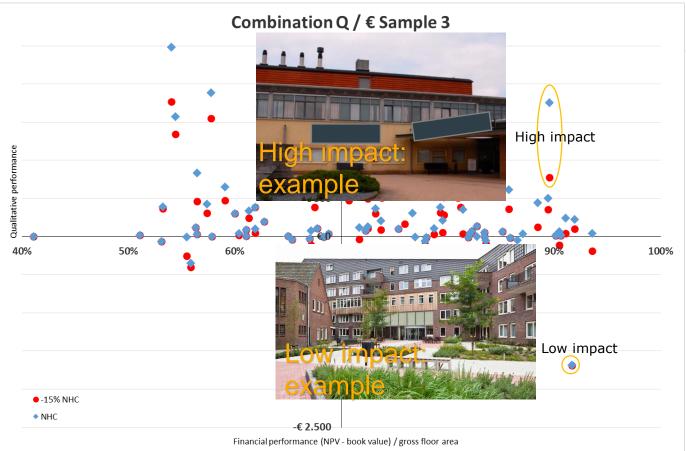


Sample 3 = 9 Organisations

- Influence of 15% reduction of income varies per object
 high / low impact
- The highest impact of the reduction are objects with dementia target groups.
- The lowest impact occurs on objects with different target groups and logically with rental apartments in the complex.

NHC = Normative Housing Component for funding of intramural care locations

Combined data – based on sample 3

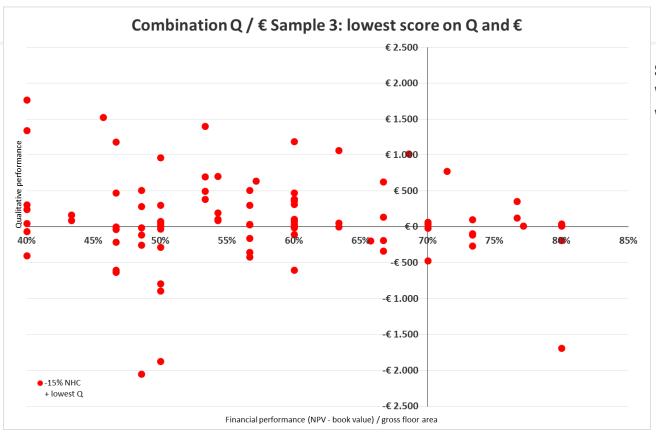


Sample 3 = 9 Organisations

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Combined data – based on sample 3



Sample 3 = 9 Organisations Worst score Q vs Worst score € (-15% scenario)

- The diagram changes dramatically when the worst scores on the Quality are plotted. This is the lowest score on one of the aspects that is used as an indicator of the total score.
- This worst case scenario shows that most of the objects have one or more aspects that are insufficient.

Conclusion - available data

- Most participants do not have a thorough dataset: recording of data needs much improvement;
- Most potential respondents were unwilling to invest time to deliver the required data in the right order
- Possible reasons: lack of time, no sense of urgency, too many surveys, or priority to manage the annual report for he accountant
- The data is insufficient to draw sound conclusions about the sector as a whole, but give a good insight in the real estate stock of the respondents

Conclusion - dilemmas

- The changing demand regarding the quality (functional, technical) and experience value of elderly health care real estate is still not well understood
- The required investments that might come from these demands is not clear yet
- The reduction of funding lead to a great loss of NPV.
 Required investments have to be financed externally and earned back by incomes from health care production

Next steps

- Extension of data collection: more respondents, some extra questions
- Extension of data analysis:
 - Correlations between current quality and willingness-to-invest
 - Correlations between partial quality scores and overall quality scores: what weights most?
- Workshop sessions to get feedback from the sector
- Policy recommendations





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