



vito

vision on technology

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SuFiQuaD

Sustainability, Financial and Quality evaluation of Dwelling types

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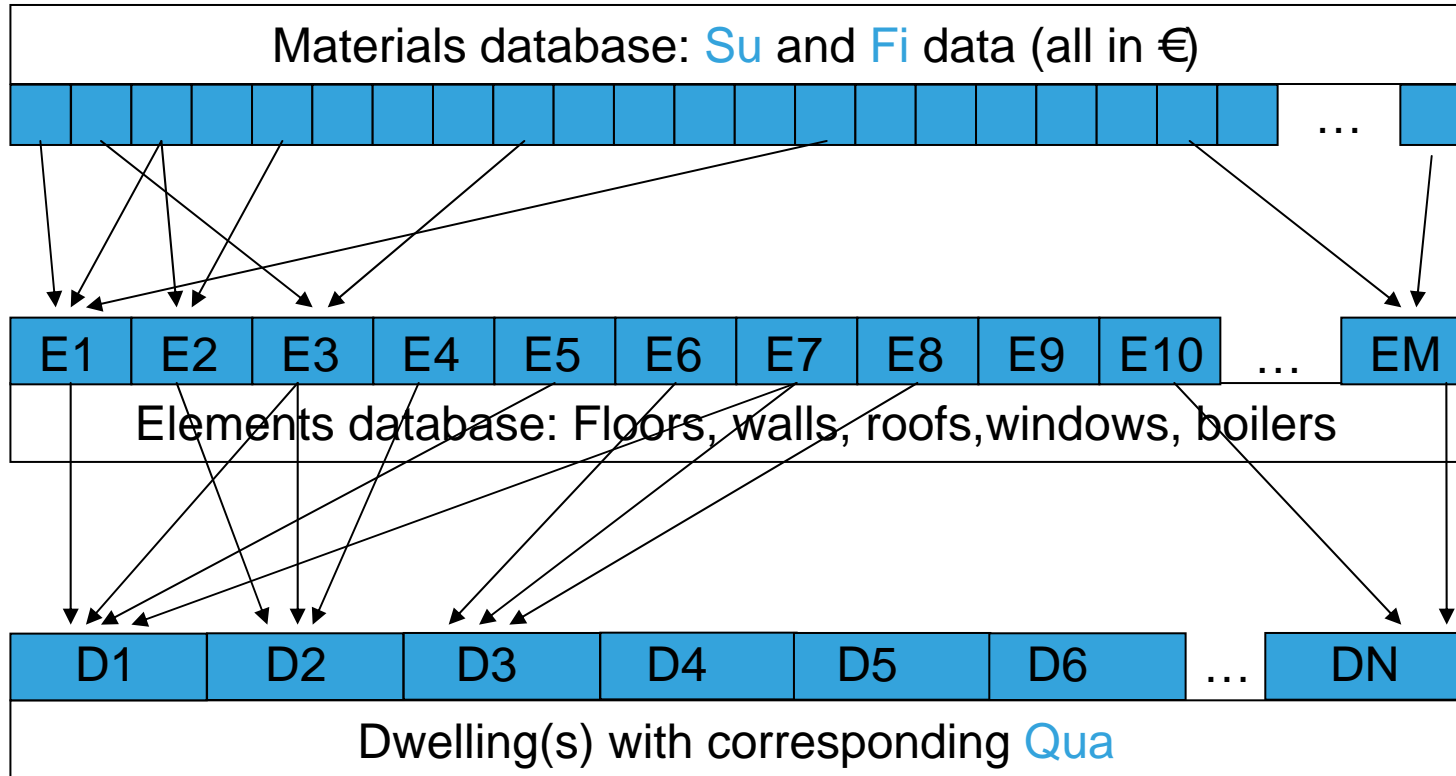
SuFiQuaD: Short description

- » Methodology and Tool for:
 - » Application on new and existing residential buildings
 - » Evaluation based on environmental effects (Su), financial (Fi) costs and quality (Qua)
- » Project for BELSPO (BELgian Science POlicy), controlled by the federal government
- » Typology specific policy recommendations (selected representative types for Belgium)

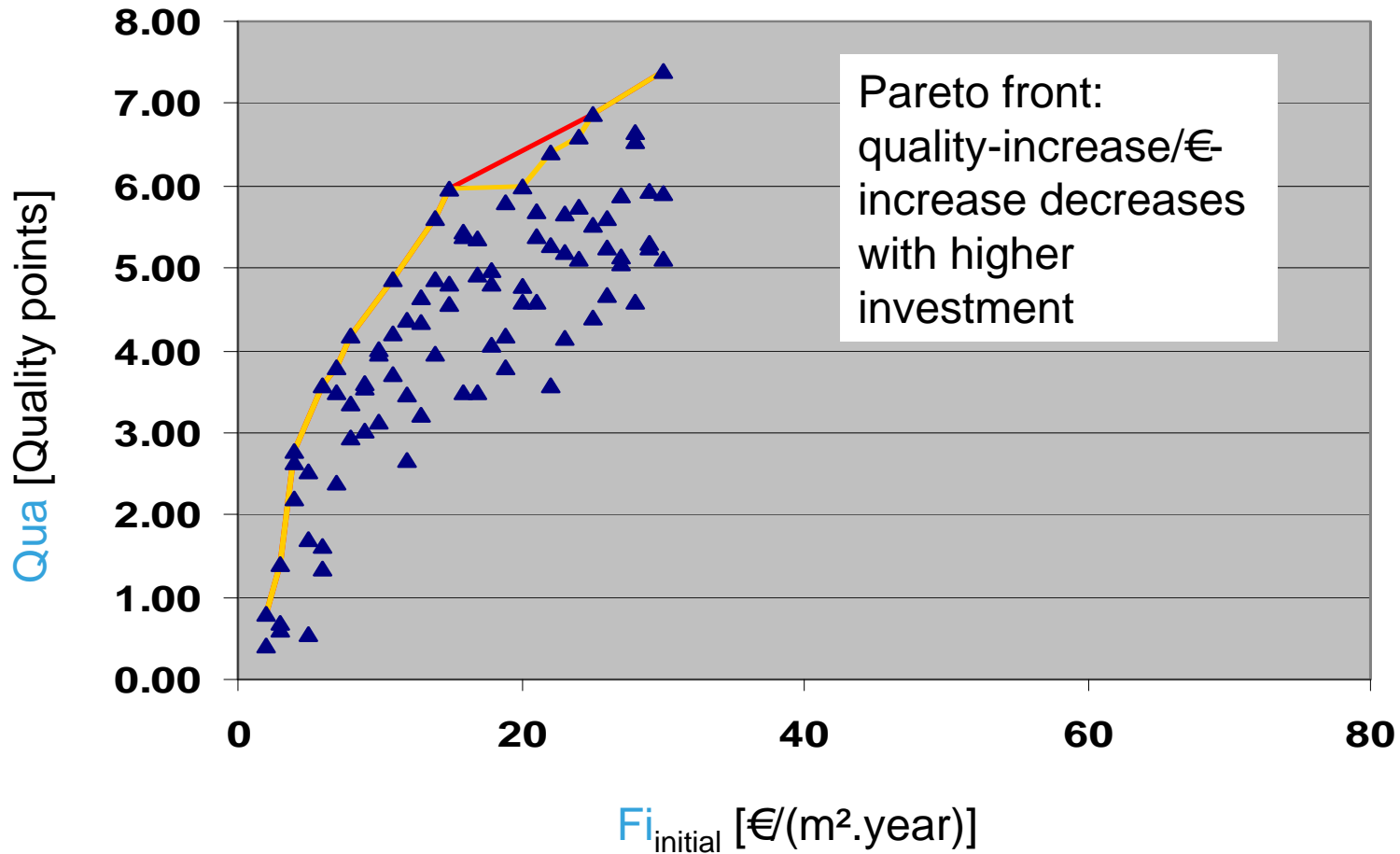
SuFiQuaD: Methodology (1)

- » **Su**: LC(I)A, Life Cycle (Impact) Assessment – Emissions, depletion of raw materials, and land usage. All are expressed in monetary terms (€)
- » **Fi**: LCC, Life Cycle Cost – Initial cost, maintenance, replacement, usage-costs (such as energy), EOL-costs (re-use, recycling, incineration, landfill)
- » **Qua**: Qualities, Multi Criterion Analysis - Dimensional, technical, functional, surroundings of dwelling

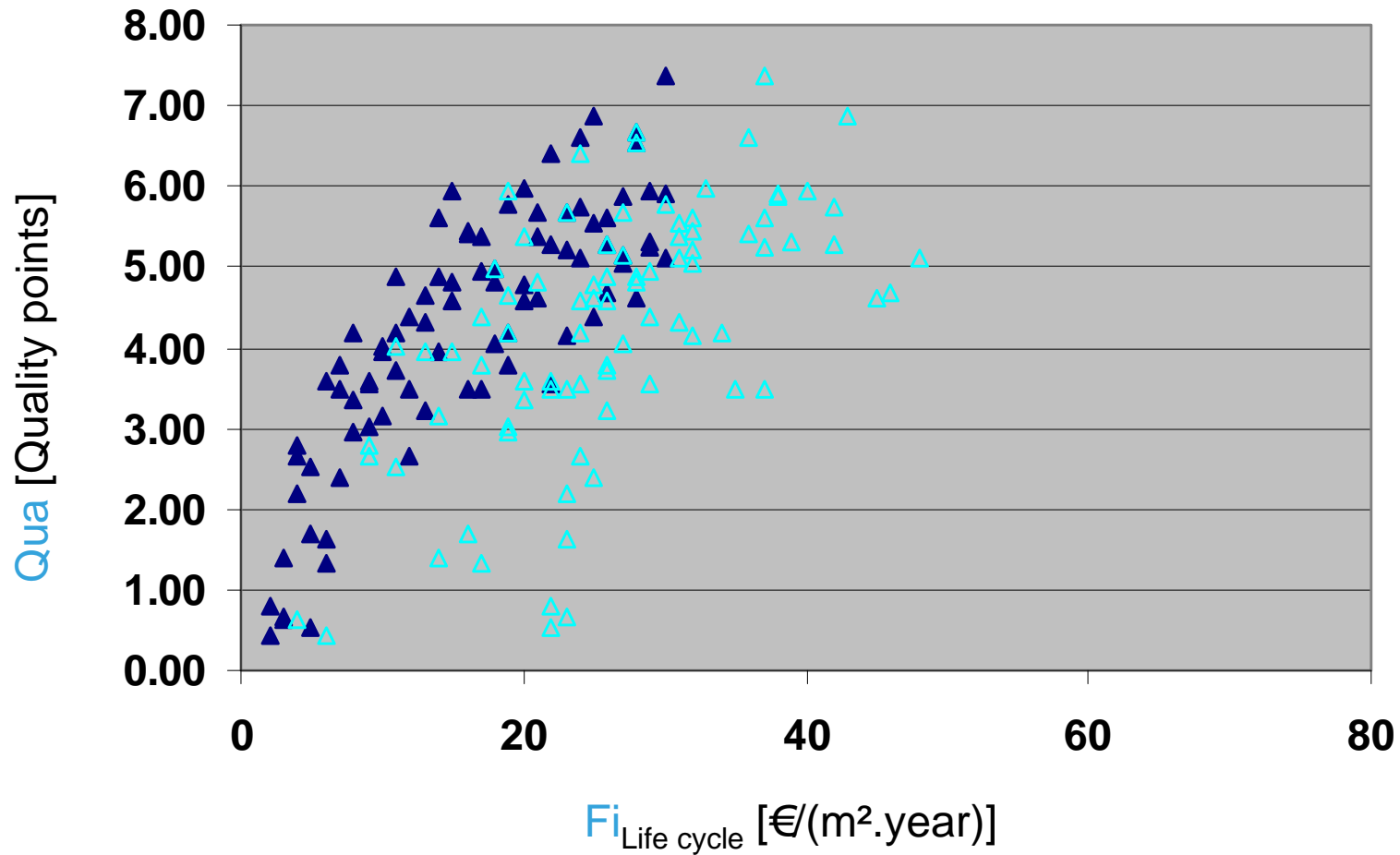
SuFiQuaD: Methodology (2)



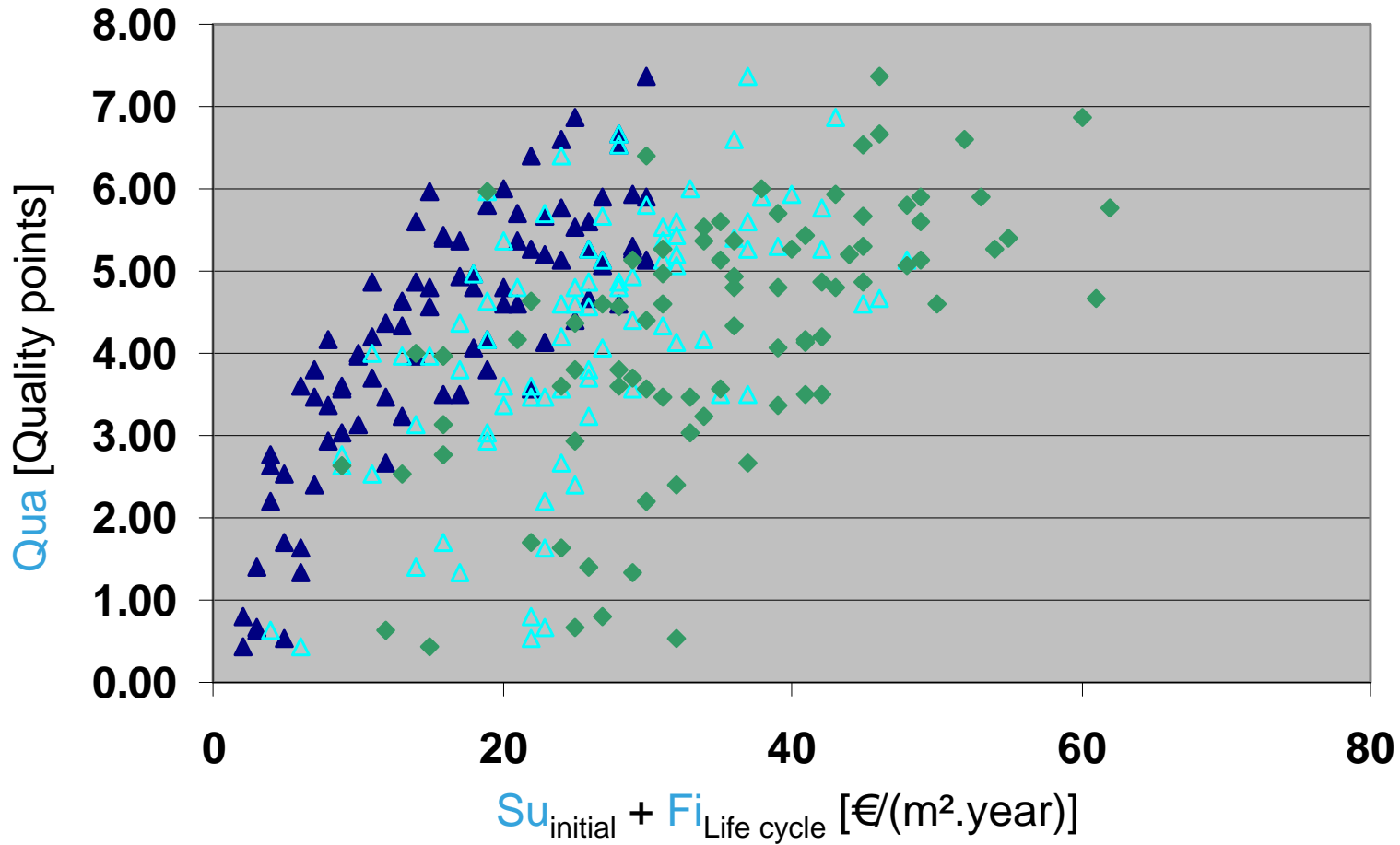
SuFiQuaD: Output, $F_{i\text{initial}}$



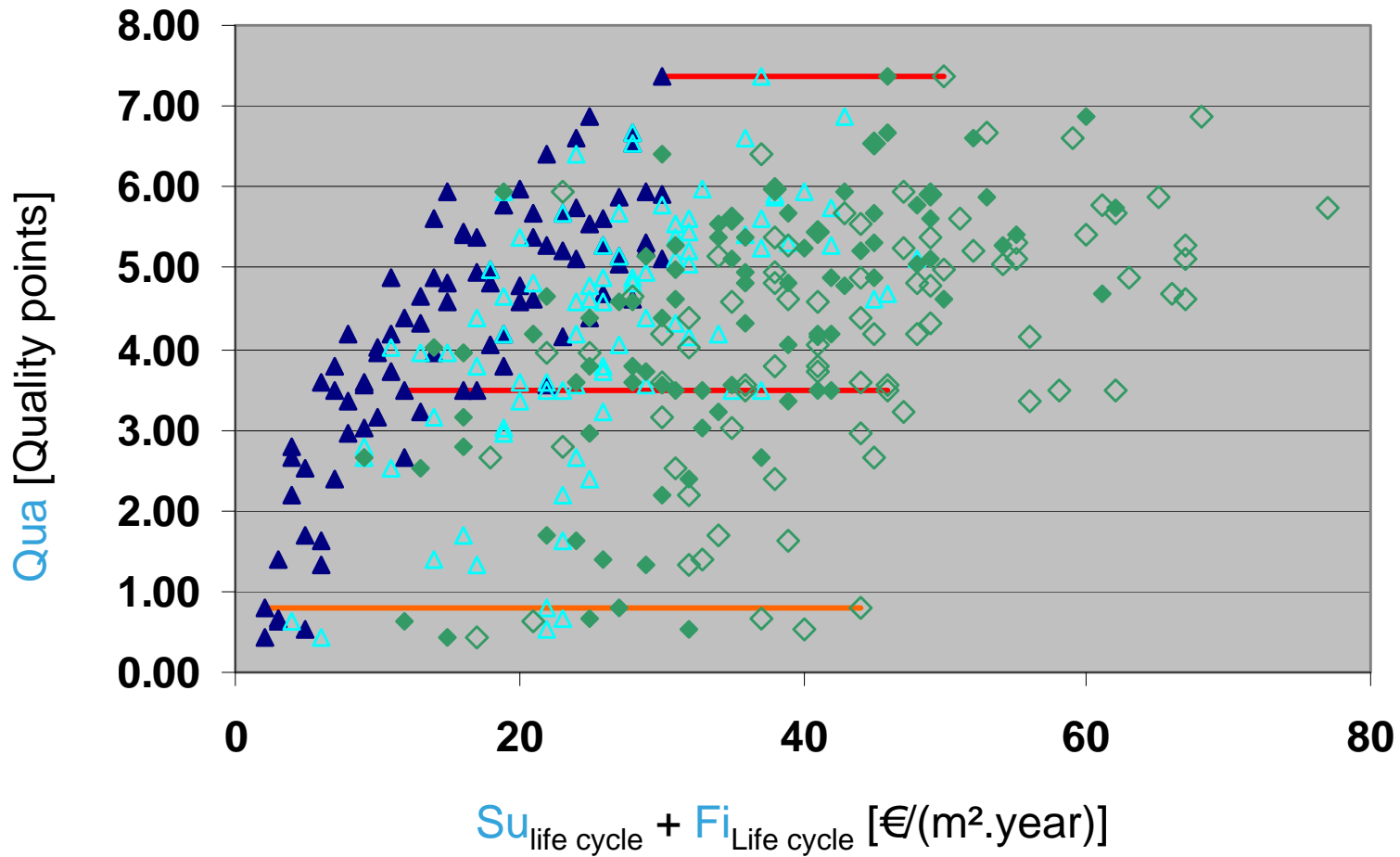
SuFiQuaD: Output, F_i Life cycle



SuFiQuaD: Output, $Fi_{\text{Life cycle}}$ + Su_{initial}



SuFiQuaD: Output, $Fi_{\text{Life cycle}}$ + $Su_{\text{Life cycle}}$



SuFiQuaD: Conclusions

- » User-friendly interface is needed
- » Agreement (international) on monetising: methodology and values
- » Different approaches possible: **Su**, **Fi**, **Su+Fi**