Evidencing Sustainability Design through Examples

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http://sustainabilitydesign.org/
Requirements Engineering

- Feasibility Study
- Stakeholder Identification
- Requirements Elicitation
- Requirements Analysis & Negotiation
- Requirements Documentation
- Requirements Validation
- Requirements Management

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“You keep using that Word...”

https://www.youtube.com/watch?v=G2y8Sx4B2Sk
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Examples

DriveNow

One Nursing

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Feasibility Study

I CAN DO THIS FEASIBILITY ANALYSIS IN TWO MINUTES.

IT'S THE WORST IDEA IN THE WORLD. NUMBERS DON'T LIE.

OUR CEO LOVES THE IDEA.

LUCKILY ASSUMPTIONS DO LIE.

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Stakeholder Identification
Requirements Elicitation

I'll need to know your requirements before I start to design the software.

First of all, what are you trying to accomplish?

I'm trying to make you design my software.

I mean what are you trying to accomplish with the software?

I won't know what I can accomplish until you tell me what the software can do.

Try to get this concept through your thick skull: the software can do whatever I design it to do!

Can you design it to tell you my requirements?
Requirements Analysis & Negotiation

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Requirements Analysis & Negotiation

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ONE OF US WILL HAVE TO READ THIS GIGANTIC PRODUCT REQUIREMENTS DOCUMENT.

UNLESS IT GETS DESTROYED IN A FREAK ACCIDENT.

IT'S LIKE WATCHING THOMAS EDISON WORK.

I HAVE SOME OILY RAGS IN MY CUBE.

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Requirements Validation
I have the ability to quantify the unquantifiable.

That is why they call me Dogbert the Quantifier.

Who calls you that?

Eight people.
Sustainability Design?

Software Engineering

Requirements Engineering

Human Computer Interaction

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Sustainability Related Workshops

• International Workshop on Sustainable Software Systems Engineering 2015 (#SSSE15)
  – 26-28 October 2015, Liverpool, UK

• International Workshop on Software Engineering for Social Sustainability (SE4SS)
  – September 7-9, 2015, Copenhagen, Denmark.

http://sustainabilitydesign.org/ssse15/  http://sustainabilitydesign.org/se4ss/