Requirements Traceability: A Framework For Changing Requirements

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(a) What is RT & why so important?
(b) My past RT work...
(c) The RT pursuits of others...
(d) My current aim, Qs & RT work...
“REQUIREMENTS TRACEABILITY (RT) refers to the ability to describe & follow information about the life of a requirement in both a forwards & backwards direction”

(i.e. from its origins, through its development & specification, to its subsequent deployment & use, & through all periods of ongoing refinement & iteration in any of these phases)

Quality: uncover & meet customer/user “real” reqts

RT: helps determine, reconcile, manage, q, alter & meet reqts
My Past RT Work...

- State-of-the-art & practice in RT
- Empirical analysis of “RT problem”
- Pre-RT & post-RT framework
- Shortcomings of conventional artifact-based RT
- Contribution structures underlying requirements
- Extended forms of RT
- Workings of RE process
The RT Pursuits Of Others...

Fantasy engineering

Band-aid engineering

(1) cause (11) symptom

Half-way house

... with extensions?
My Current Aim & Qs...

To understand & improve RE process:

• How provide economical & representative record of collaborative & dynamic process?

• What should record contain?

• How should record be structured?

• What used for, when, by whom & how?

• What to do when record is found wanting?

More far-reaching implications tho’...
My Current RT Work...

- Full contribution structures & RE framework
- Decentralised RT (with viewpoints, VC & CM)
- RT process models, metrics, tools & training
- Programme-based & media-based views of RT
- Trace visualisation, navigation & impact

"Need to extend current RT to support changing reqts of: (a) customer/user & (b) RE process"

"RT can address many causes of project failure"

Olly's posn