

# 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...



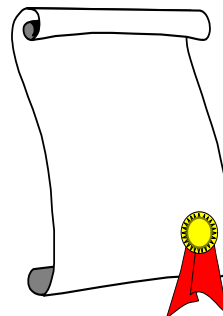
# What Is RT & Why So Important?



"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 on-going refinement & iteration in any of these phases)

Quality:  
uncover & meet  
customer/user  
"real" reqts

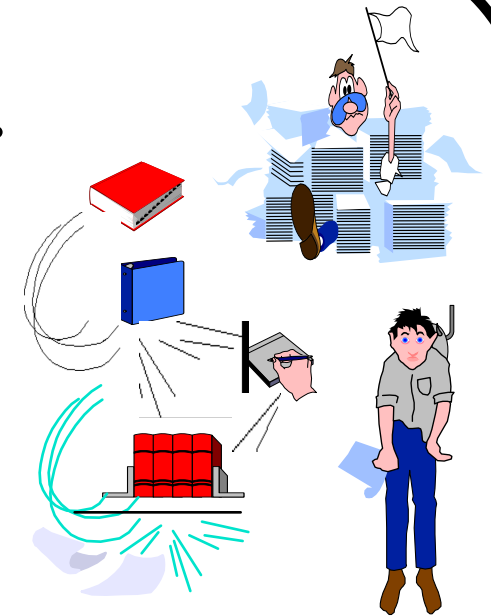


RT:  
helps determine,  
reconcile, manage, q,  
alter & meet reqts

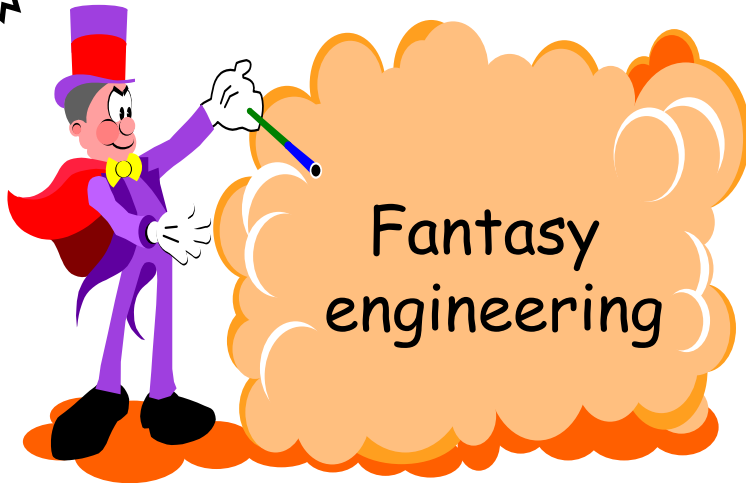


# My Past RT Work...

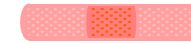
- State-of-the-art & practice in RT
- Empirical analysis of "RT problem"
- Pre-RT & post-RT framework
- Shortcomings of conventional artifact-based RT
- Contribution structures underlying requirements
- Extended forms of RT
- Workings of RE process



# The RT Pursuits Of Others...



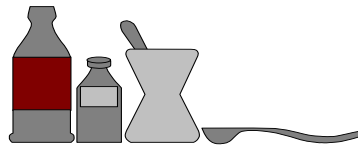
Fantasy  
engineering



Band-aid engineering

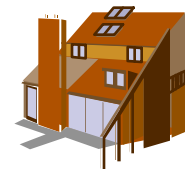
(1) cause

(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

