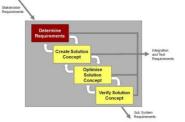
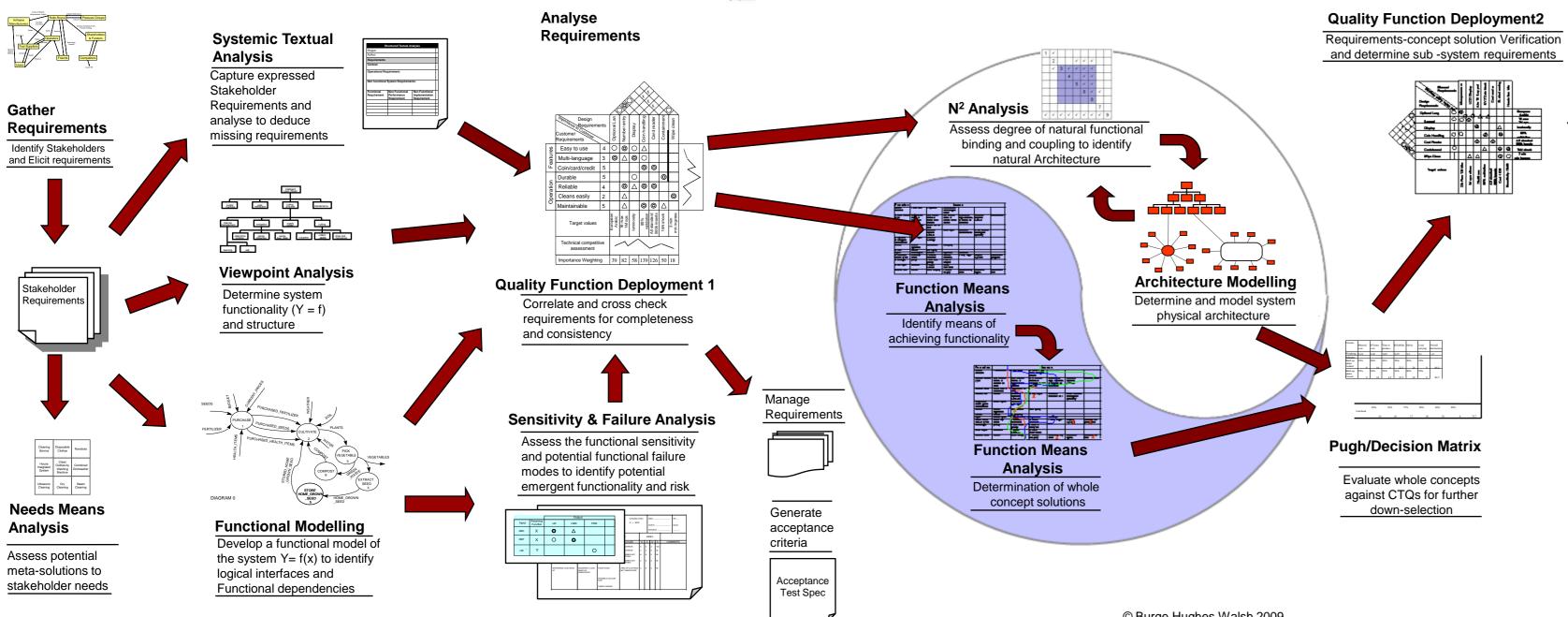
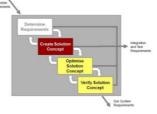
Define Requirements

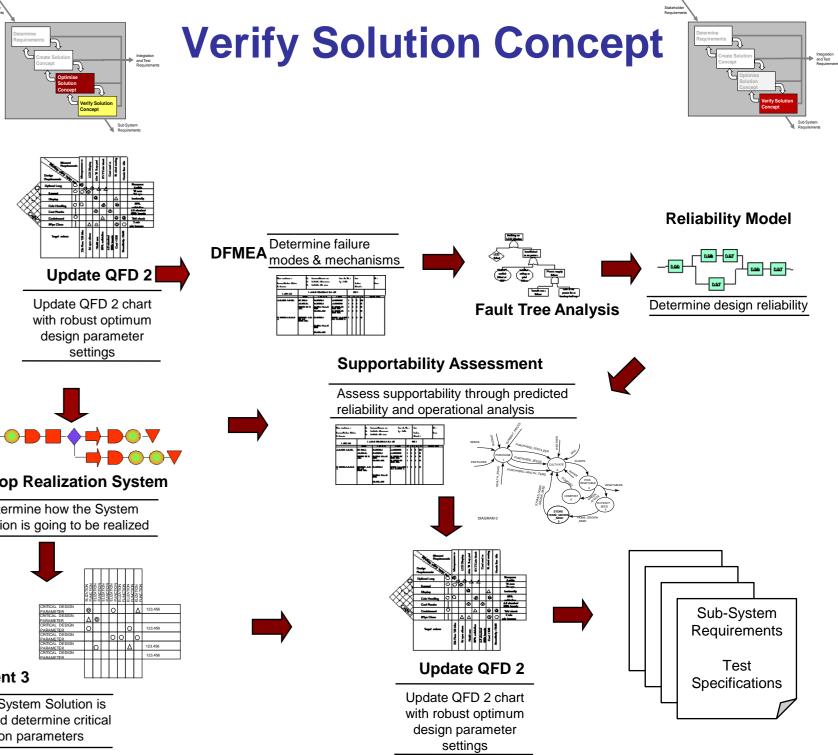


Create Solution Concept

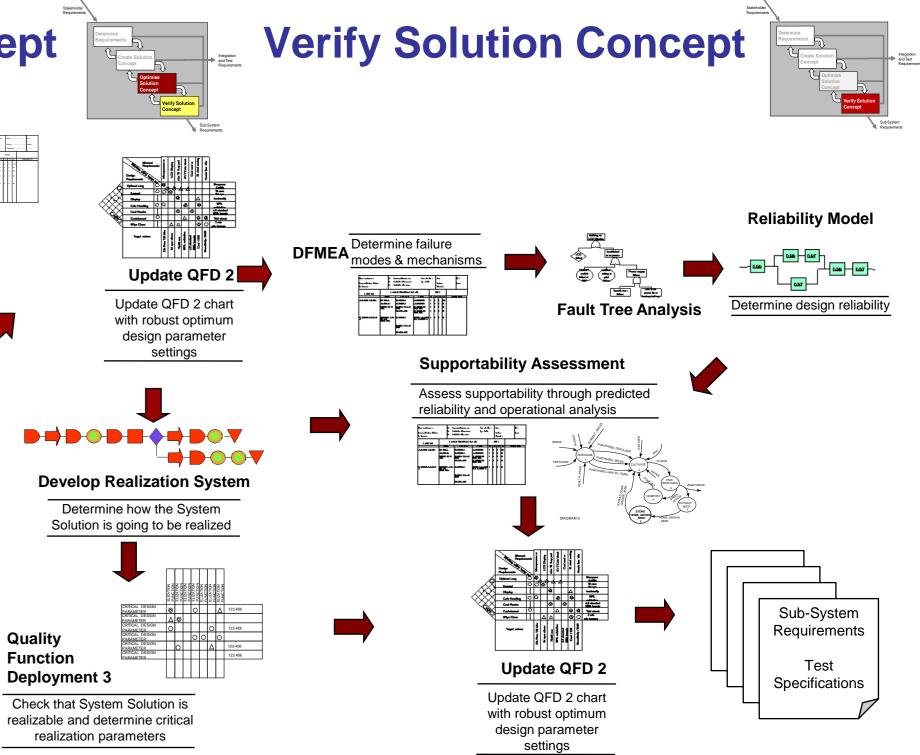




Optimise Solution Concept











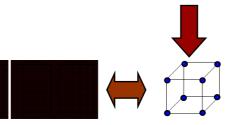
Function Deployment 3

Check that System Solution is realizable and determine critical realization parameters



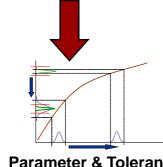
Qualitative Robustness and Critical Parameter Analysis

Based on an existing or "in current" development product, for each phase, identify the critical design parameters and noise variables using P-diagrams, What Why Tables and DFMEA



Quantitative Robustness Analysis

Use models or physical designed experiments to characterise the transfer function and thereby robustness of the product design Use DFMEA to determine and prioritise failure modes



Parameter & Tolerance Design to find robust optimum

Use qualitative models to explore solution space to find robust optimum and thereby determine design parameter settings and tolerances