

Systems of Systems ...

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Two orienting examples ...

The bridge to policy and to 'grand challenges' ...

Our existing software systems
engineering techniques & approaches
cannot be simply scaled ...

The discipline of 'systems engineering'
as currently practiced has little to
teach us...

The systems science of the 50s & 60s
has not been progressed ...

The modern study of 'complex systems' is in its intellectual infancy, offering some tools but no coherent approaches ...

Challenges in systems of systems are less to do with structures and more to do with behaviours and dynamics ...

We need to revisit dynamic system
modelling and control theory ...

Our approaches also need to be
informed by statistics and by
statistical physics ...

Network theory is interesting but
we need to look at behaviourally
rich networks possibly at the
meeting points between networks
and game theory ...

We have no understanding of
outcomes ...