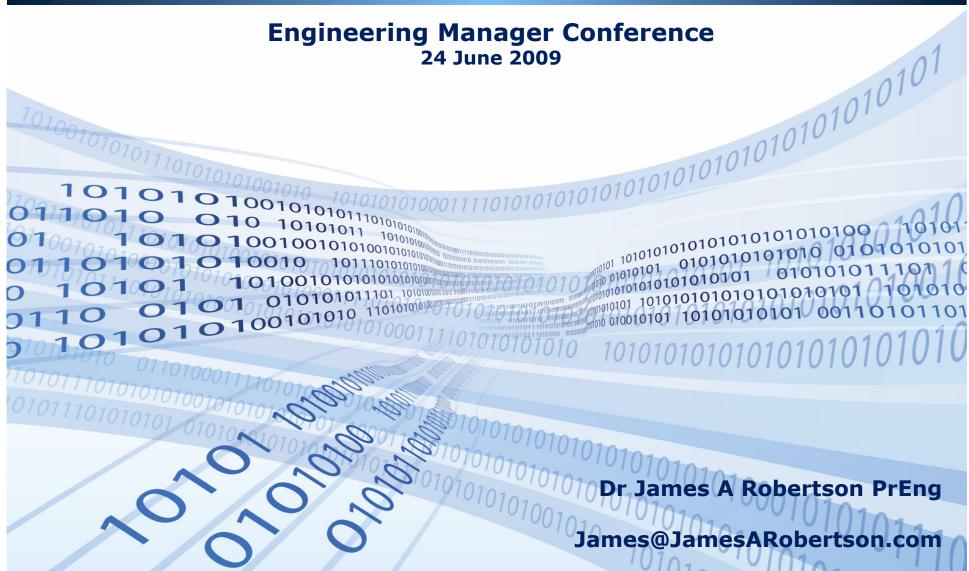
The New South Africa Why Engineering Fails





Achieving success





Engineers do NOT design bridges to stand up





Engineers design bridges NOT to fall down





Vision





Angus Struan Robertson

Experiencing failure





Closer to home



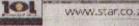


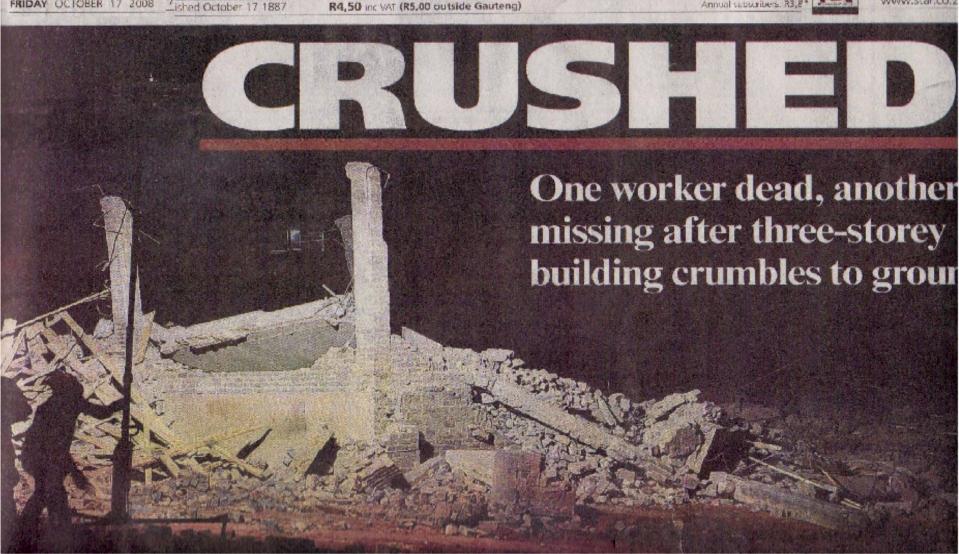


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What is NOT an engineering approach?







NEWS

"Restore the integrity of the number plate to fulfil its true functions which are the vehicle's ID book and a law enforcement tool."

BY BALDWIN NDABA

Gauteng's roads MEC has come out in defence of his decision to change Gauteng vehicle number plates, a move said to make speed-trapping easier.

Motorists will have to pay for new plates, starting from January.

Ignatius Jacobs came under attack from the Democratic Alliance when he declared his intention during the presentation of his budget in the Gauteng Legislature on Tuesday.

James Swart, the DA spokesperson on transport, said the system, which Jacobs admitted

Mixed messages on new vehi

was not subject to wide consul-tation, was likely to become another eNaTIS nightmage

Reacting to the accusations. Jacobs said: "The aim of the new intelligent number plate to provide Gauteng with a variant Restore the integrity of the ety of applications, to increase efficiency and effectivenes to all areas of operation, a effective law enforcement."

Detailing what he classified as advantages, the new system would:

Use a high integrity elec-

tronic tag to control the number plate distribution channel to combat the indiscriminate manufacture of both compliant and non-compliant plates (each plose ... in be unique).

number plate to fulfil its true functions, which are the vehicle's ID book and a law-enforcement tool.

set national standards.

Prevent vehicle crime such as theft, vehicle cloning and the Prevent the duplication

false issuing of all types wehicle documents.

Ensure effective use of plate to/spot non-compliant vehicle without inconveniencing con pliant vehicles.

Prevent the issuing of fals places and licence discs expert stolen vehicles, a maje challenge for law enforcemen

on the Prevent the use of fals plates to disguise vehicles use in crimes.



Is technology moving so fast you cannot keep up?





People create value











Strategy



Doing the right things



Professor Malcolm McDonald

Tactics



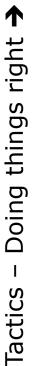
Doing things right

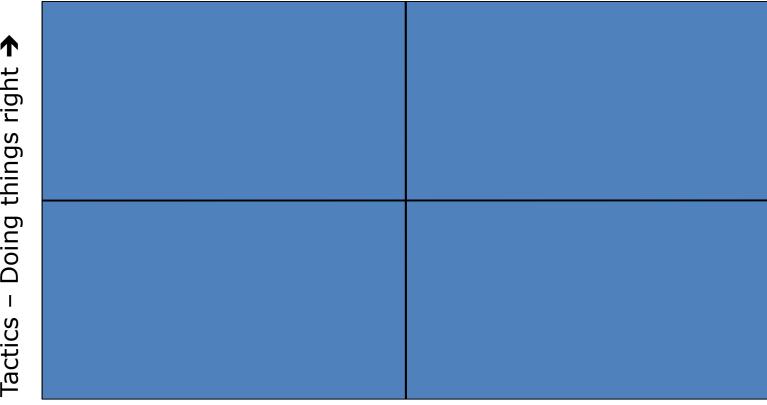


Professor Malcolm McDonald







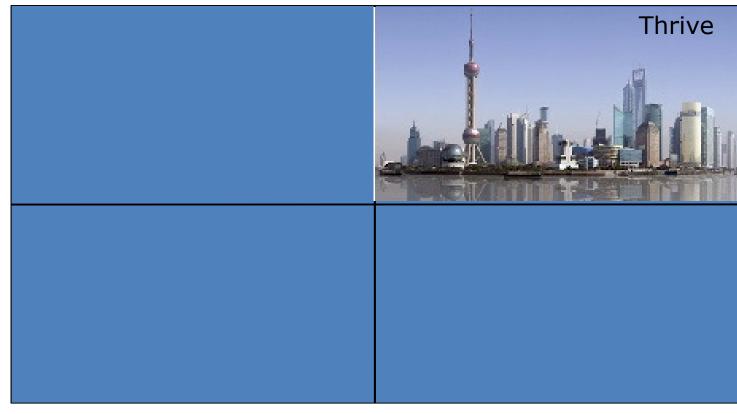


Strategy – Doing the right things →





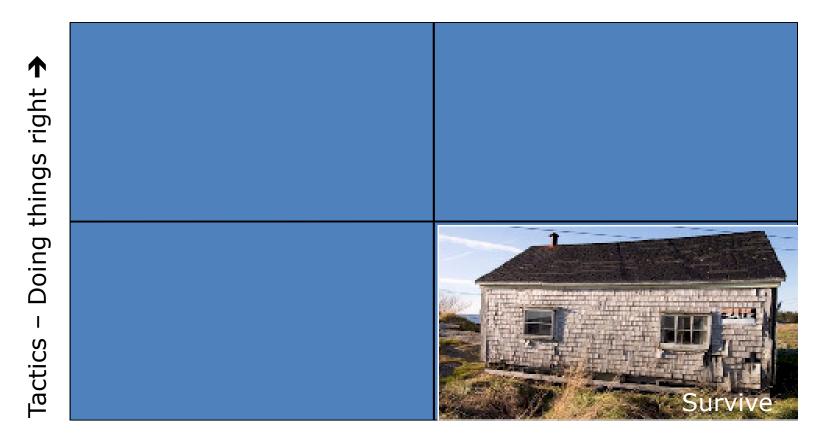
Tactics - Doing things right →



Strategy – Doing the right things →





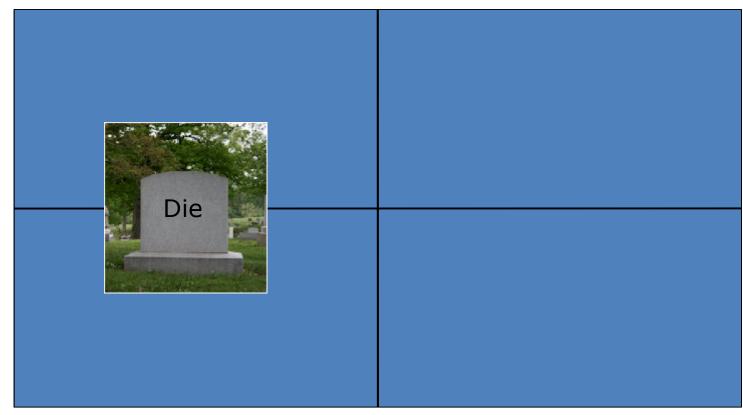


Strategy – Doing the right things →





Tactics - Doing things right →



Strategy – Doing the right things →





Tactics - Doing things right →





Strategy – Doing the right things →





Tactics - Doing things right →



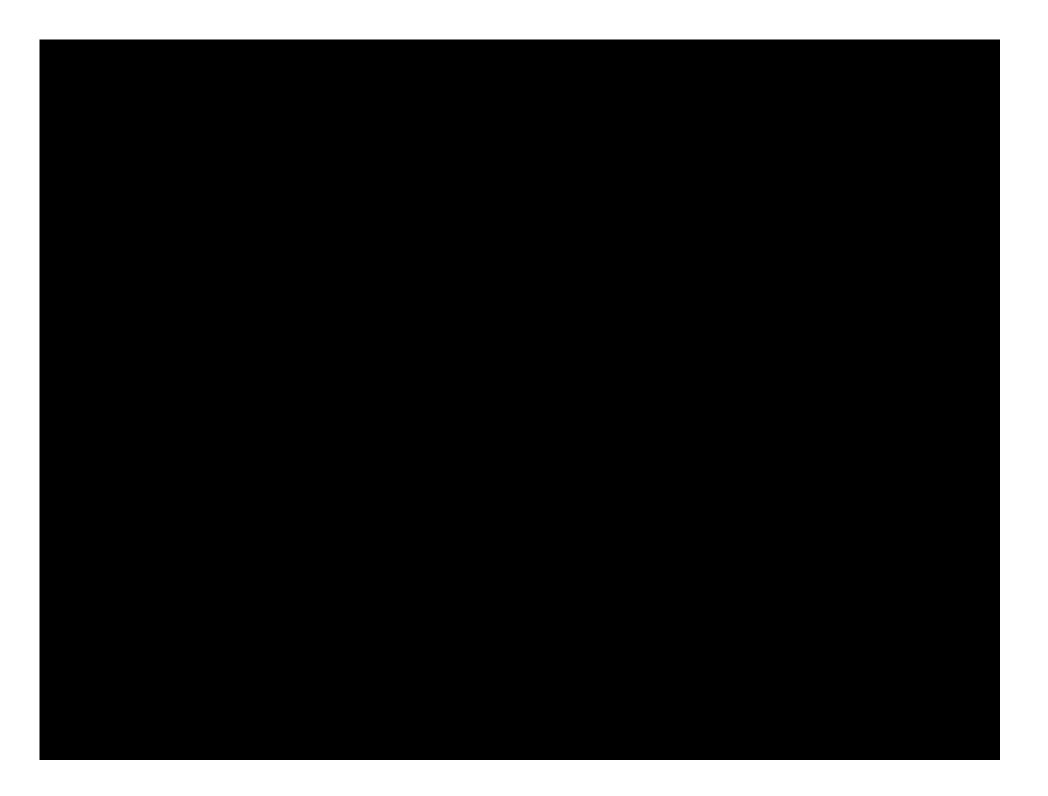
Strategy – Doing the right things →

What is strategy?



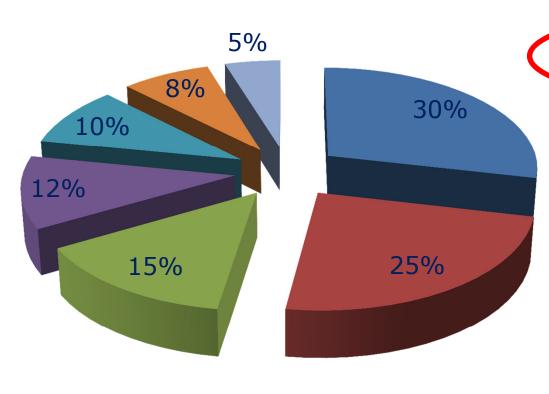
The essence of why an organization exists and how it thrives





Factors causing technology failure





■1. Mythology -- 30%

- 2. Lack of executive custody-- 25%
- 3. Poor strategic alignment 15%
- 4. Lack of an engineering approach -- 12%
- 5. Poor data engineering -- 10%
- 6. People issues -- 8%
- 7. Technology issues -- 5%

The critical factors for success





Engineering is about people -- REALLY



- 1. Effective engineering is about profitable use of technology
- 2. People who use engineering deliverables create value
- 3. Technology is NOT magic
- 4. Knowledge and experience are critical for successful development and deployment of technology
- 5. It takes solid base line engineering exposure before age five to produce an engineer
- 6. It takes forty to fifty years to produce an engineer able to effectively lead high value projects

Call to action



- 1. What is your single most important insight from this presentation?
- 2. What is the single most practical action that you can take tomorrow to apply I.T. more effectively?

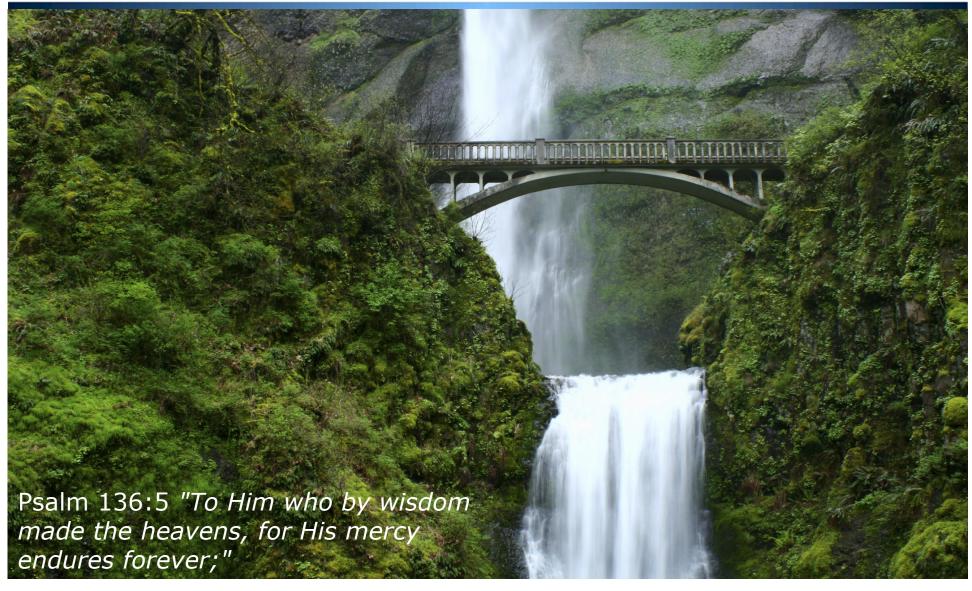
If you do not act within 48 hours you probably never will – act TODAY! ©



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Design solutions like bridges ... To last





Questions?



Acknowledgement and dedication

Clients, associates and staff

Father and mother Angus and Thelma

Children Alexandra and Struan

To the glory of the Eternal Creator



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Finding the missing pieces of your I.T. and strategy puzzles