The Resource Revolution and Getting to Scale: Integrated thinking, numbers, finance and time in a globalising world

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The Resource Crisis: How do we respond?

“If we can solve sustainable energy and be well on our way to becoming a multiplanetary species with a self-sustaining civilization on another planet – to cope with a worst-case scenario happening...

I think that would be really good.”

- Elon Musk (Virgin Books / Penguin, 2015)

First rockets to land on Mars by 2022?
100 data science interns to tackle Cape Town water shortages

Johannesburg - One hundred interns from South Africa’s first data science academy in Cape Town will tackle “real world problems” - the first, the city’s water shortages.

Telkom’s information and communications technology subsidiary, BCX sponsored almost R50m in internships, scheduled to take place, over the next three years.

The Explore Data Science Academy first centre will be in Cape Town, with the investment fuelled by the growing demand for data scientists within the country.

READ: Massive boost for rand on poor US jobs data

The academy is the brainchild of founders Shaun Dippenaar and Michael Helmbold, all qualified data scientists with actuarial and lecturing, research and consulting.

“The students will be placed in an environment where they will work on real projects and make a real impact,” says Dippenaar.

Amundsen, who was recently appointed to advise on the development of the academy, said: “This initiative is going to have a huge impact on the local population. It is a pathway to an advanced career in the data science field with a proven track record of success in the top position in the global data science market.”

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The Resource Revolution Trainer
Coupling Sustainability with Excellence. An online self-training guide for business.

http://www.resourcerevolutiontrainer.net
Decoupling at business level

Level of ambition required:

*The Resource Revolution, Heck and Rogers 2014*

- Making 50%-80% resource productivity improvements
- Ensuring 2 years or less payback period
- Developing a high productivity business model
- Having ability to deliver at industry scale

“resource productivity not relevant until it reaches massive scale”
Small is Beautiful?

“We need methods and equipment which are:

- Cheap enough so that they are accessible to virtually everyone;
- Suitable for small-scale application; and
- Compatible with humans’ need for creativity.

The greatest danger invariably arises from the ruthless application, on a vast scale, of partial knowledge (e.g. nuclear energy)…”

Warned against the economics of giantism, large-scale mechanisation and automation; argued for intermediary technologies...