Framework

• $P^3$
  – Principle
  – Policy
  – Practice

• Economy

• Information technology

• Sustainability
Propositions

• Principle
  – Knowledge as human right
  – Empowerment

• Policy
  – KM framework

• Practice
  – Gap
  – Supply : Demand
Knowledge Tree

- Data
- Information
- Intelligence
- Understanding
- Knowledge
- Wisdom
- Discernment
Intelligence

IQ
EQ
SQ
I
### Connectivity

- 14 fibre-optic cables
- link Europe/Asia mid-2012
- internet connections 3x 2010
- 300 x 2009.

<table>
<thead>
<tr>
<th>AFRICA REGION</th>
<th>Population (2010 Est.)</th>
<th>Pop. % in World</th>
<th>Internet Users, Latest Data</th>
<th>Penetration (% Population)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>1,013,779,050</td>
<td>14.8 %</td>
<td>110,931,700</td>
<td>10.9 %</td>
</tr>
<tr>
<td>Rest of World</td>
<td>5,831,830,910</td>
<td>85.2 %</td>
<td>1,855,583,116</td>
<td>31.8 %</td>
</tr>
<tr>
<td>WORLD TOTAL</td>
<td>6,845,609,960</td>
<td>100.0 %</td>
<td>1,966,514,816</td>
<td>28.7 %</td>
</tr>
</tbody>
</table>

| South Africa | 49,109,107 | 2,400,000 | 5,300,000 | 10.8 % |

INTERNET USERS AND POPULATION STATISTICS FOR AFRICA
Networks
Economy

• Globalisation
• Models
  – developed (Gs)
  – developing (BRIC)
• Africa rising
• South Africa leading
Financial Meltdown

- Synthetic Collateralized Debt Obligations (CDOs)
- Credit Default Risk Measures in Static Factor Models

\[ P(L|X) = \frac{1}{2\pi i} \int_{c-i\infty}^{c+i\infty} \exp(\mathcal{K}(\xi|X) - \xi L) d\xi \]

- Meltdown probability: 1 / 100 000 years
- Great Recession global cost: $xx trillion ??

Quant Paul Wilmott
Adam Smith Problem

- Wealth of Nations
- Theory of Moral Sentiments
- Efficient market economy
- Happy (“sympathetic”) society
- Capitalism
- Economic and moral self-interest
- Market model of society
Creative capitalism: Doing well by doing good
Two new bullet trains in Shanghai yesterday as China’s latest high-speed passenger rail line went into service. The trains are capable of more than 400km/h travel time between Shanghai and Hangzhou will be halved to 45 minutes. The line extends China’s rapid rail network to more than 7,430km.
New Economic Growth Path

- Employment, poverty, inequality
- 5m jobs
- Unemployment 25% 15% next 10 years
- BIC model
- Integrated African economy
- Partnership Government + Private Sector
- Infrastructure, Agriculture, Mining, “Green” economy, Manufacturing, Tourism
- Skills
Sustainability

• Living Planet Report 2010
• Resources consumed 1½x p.a
• Not sustainable - 9bn by 2050
• SA threat: food, water, energy
• 82m by 2035
• 80% land dedicated to agriculture
• Critical choices: energy, transport, food, water
CRITICAL ISSUES

**Global**
- Resources
- Demographics
- Globalisation
- Knowledge economy
- Technology
- Web 3.0 / Generation Y
- Ideological conflict

**Local**
- Political economy
- Growth
- Social environment
- Competence (skills, talent)
- Resources
- Competitive capacity
Priorities for Africa

- Knowledge and innovation: lifeblood of development
- Integrated policies
- Mobilising leadership for KE
- Innovation by local communities
- Innovation aligned with domestic strengths and national needs
- Education reform to respond to KE demands
- ICT: fundamental infrastructure, enabler of the KE
- Open development process
- Building on know-how of others
- Strategic monitoring and evaluation

World Bank 2007
Knowledge Management Framework

- Rationale and Background
- KM terminology and definitions
- People as pillars of KM
- Process, Pillars, Tools as KM enablers
- Content, Knowledge, KM
  - KM strategy development framework
- Culture and change management
- PS as Learning Organisation
- Infrastructure/infrastructure
- Monitoring and evaluation
- Legal framework
- Implementation plan
- Recommendations (119)