

Technology to Improve Logistics Decisions

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Sergio Guedes Silva, 2011
Logistics Development Unit

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How can technology be useful to the
Humanitarian Sector?
Challenges...
Solutions...

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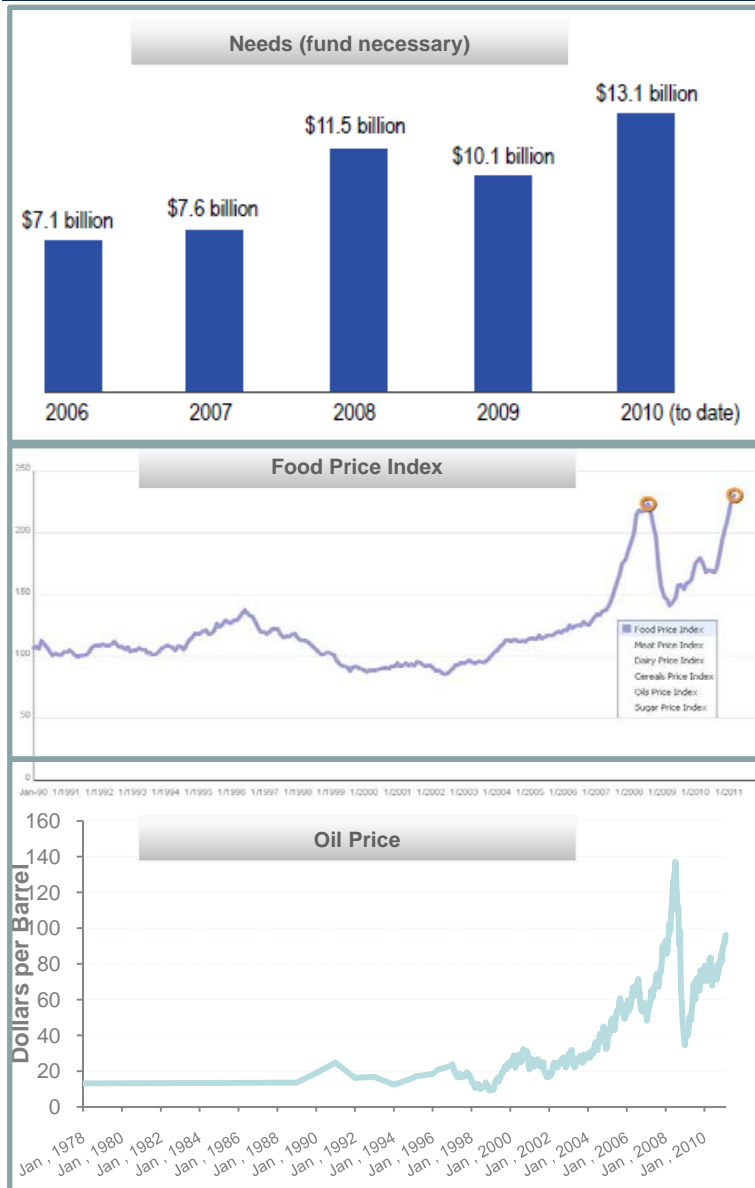
1 - Context

The Humanitarian Sector and World Food Programme

- ✓ A United Nations Agency focusing on fighting hunger in the poorest areas of the world
- ✓ **Collaborating with:** governments, NGOs, local partners and other UN agencies
- ✓ **Type of projects:** Emergency, Relief & Rehabilitation and, Development
- ✓ **Dimension:** serves > 90 million people per year in more than 70 developing countries.
- ✓ **Operations:**
 - 3.7 million metric tons of food per year
2 million procured
 - At any given time:
 - 30 ships at sea,
 - 70 aircraft in the sky and
 - 5,000 trucks on the ground



2 - Challenges



Globally

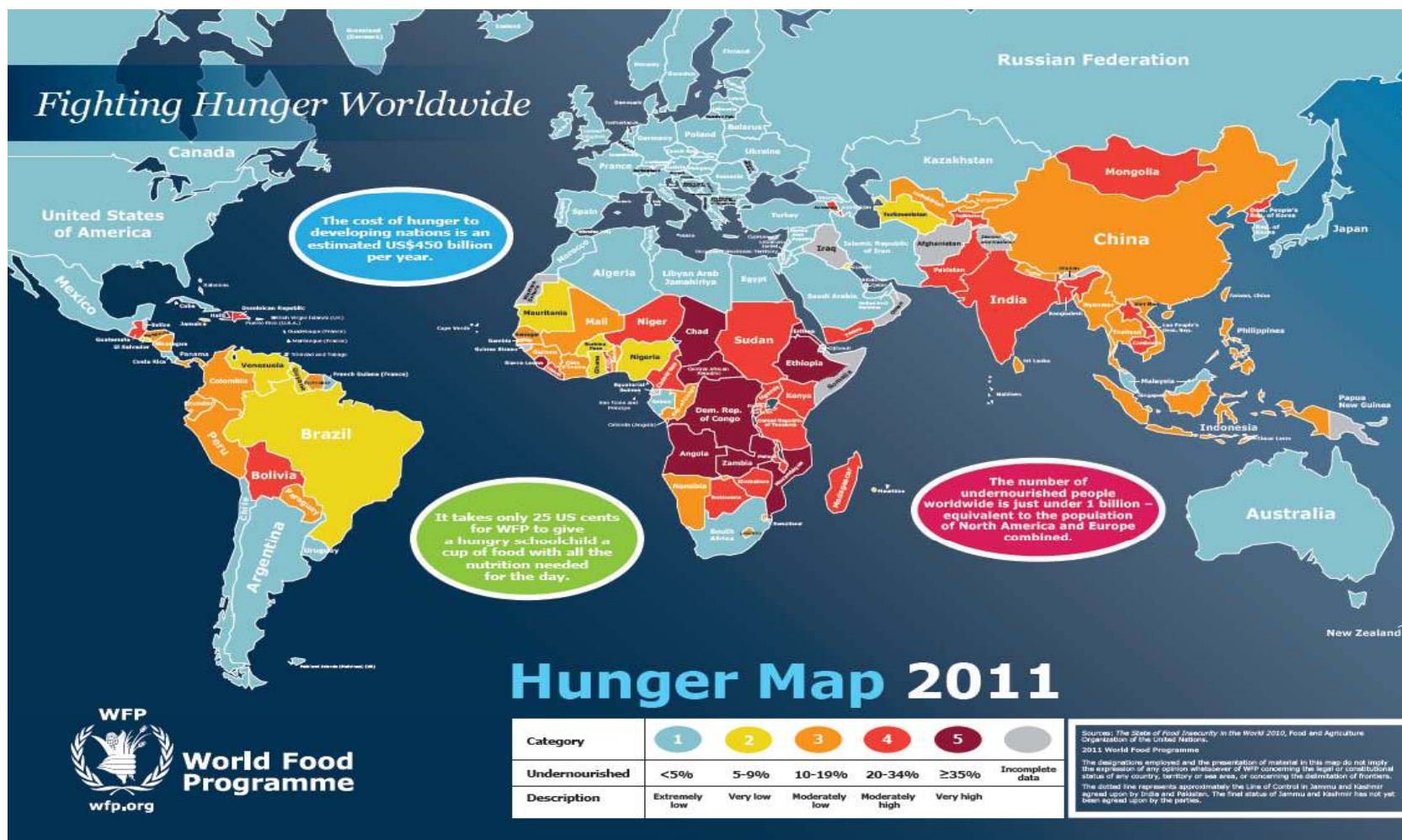
- *Achieve efficiency and effectiveness*

In Operations

- *Access to data (visibility)*
- *Measurement (data based improvement)*
- *Think Supply Chain (integrated vision)*

2 - Challenges (II)

Operations in complex and dangerous scenarios in the most remote areas...





3 – Technology (Information Technology)



“Emerging technologies present us with the means to respond sooner and more effectively than ever before”

BAN Ki-moon

Secretary-General of the United Nations

3 cases at WFP

A - Bringing Visibility: Supply Chain Maps Interface

B - Enhance Supply Chain Planning: SC IPF System

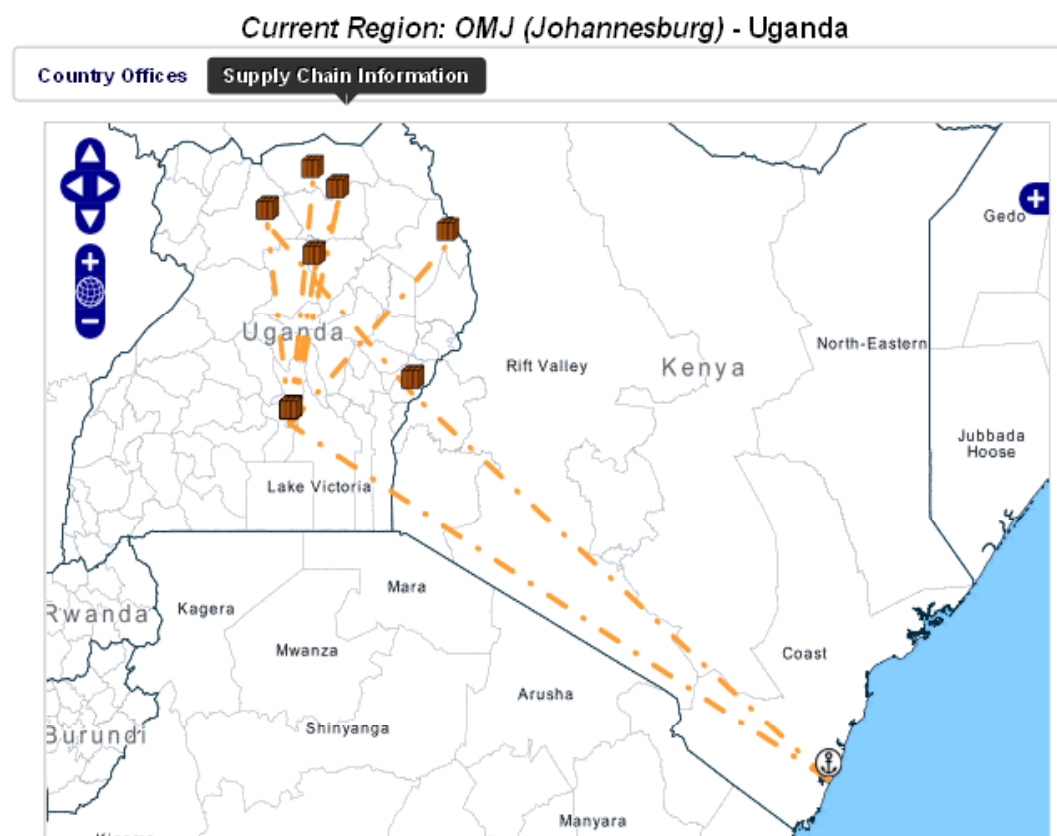
C- Supply Chain KPIs Initiative



4 - A) Supply Chain Maps Interface

Based on data from Commodity Tracking System

- ✓ Global visibility
- ✓ Provide information on historical and operational performance:
 - ✓ Destination Ports
 - ✓ Overland Corridors
 - ✓ Delivery Points



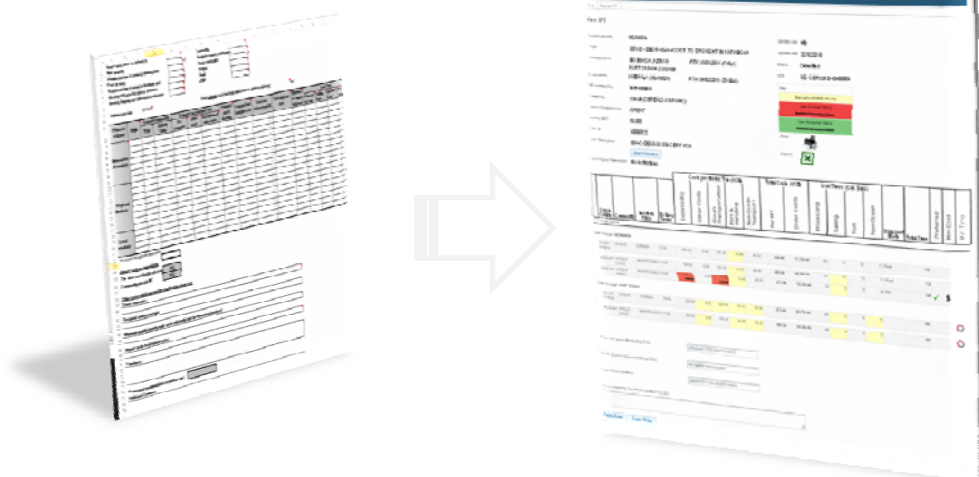
4 - B) Supply Chain Planning

► The Import Parity Form (IPF) process:



► IPF in the Supply Chain:

- ❑ Involvement of **all main SC actors**
- ❑ About 20 IPFs per day;
- ❑ **Importance** in the WFP Cash Food (potential high impact)

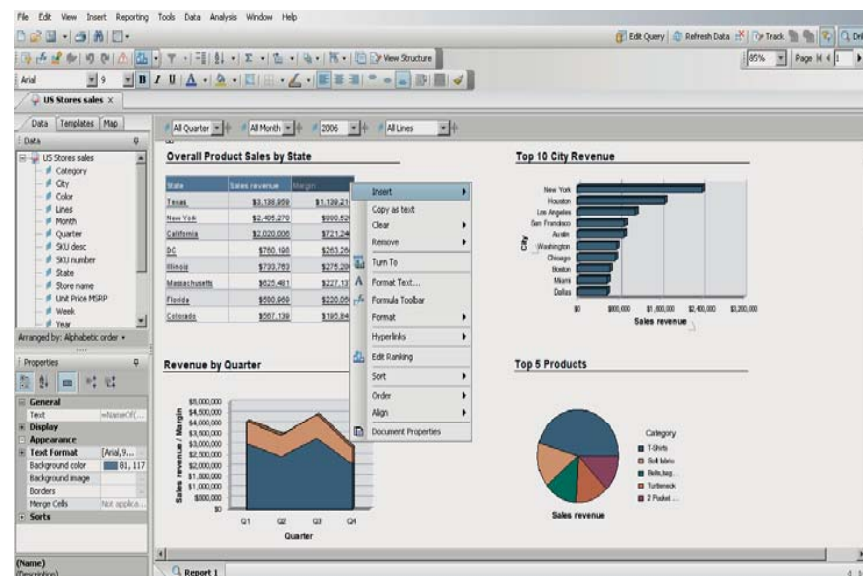




The diagram illustrates the three phases of the strategic planning process, each represented by a circle with a different fill level of blue, indicating increasing engagement or focus over time.

- Before**
To plan
- During**
To adapt tactics
- After**
To adjust strategy

- Web access
- Dynamic interaction
- Overall and Detail Reports
- Private and Academic inputs.





5 – Final Notes

Innovation, Quality and Sustainability

(academia, governments, private sector)

Our role...?