





Quarry Academy Europé 2012
Malmö, 17 – 19 September

Safety first


Our objective is zero harm to our people, the environment we work in, our customers and our suppliers




- Protective equipment




- Emergency number



- Emergency exit



- Alarm



- Assembly point

Program Overview

- Faculty – Over 300 + Years of Experience
- Value Chain / Lean Thinking Concept
- 3 day Curriculum – Full Value Chain Approach
 - How to Make It – Sandvik / Volvo / Orica
 - Keynote – Safety Planning with Renata Chlumska



Program Approach

- Lectures on critical “mass” issues – “Best Practice”
- Workshops for specific focus / individual interest
- Operator challenge – prizes!
- Anti-trust reminder
- Refer Course Outlines and Bios
- Link it together – Total Value Chain Thinking



Construction business drivers

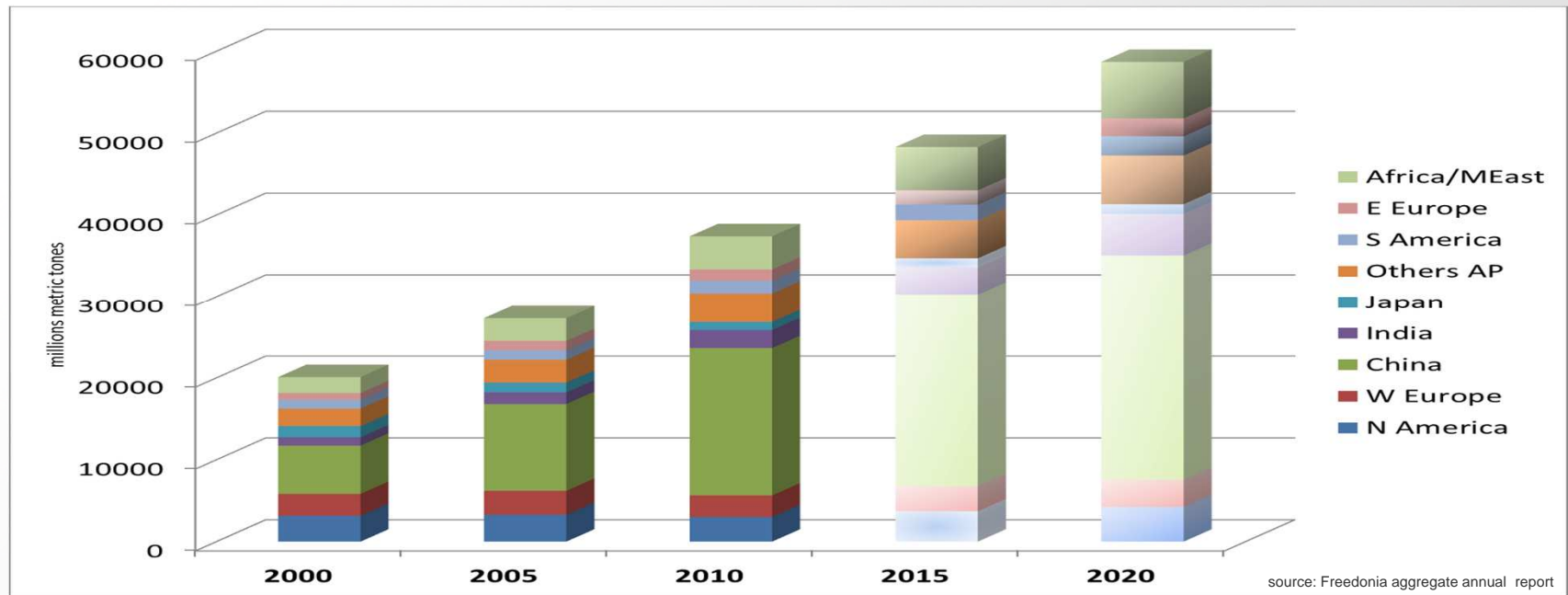
POPULATION – WEALTH – URBANISATION – INFRASTRUCTURE



Photo by Pablo Lopez Luz

World Aggregate Demand

2000 - 2020 (forecast)



The "Silo" Costing Approach

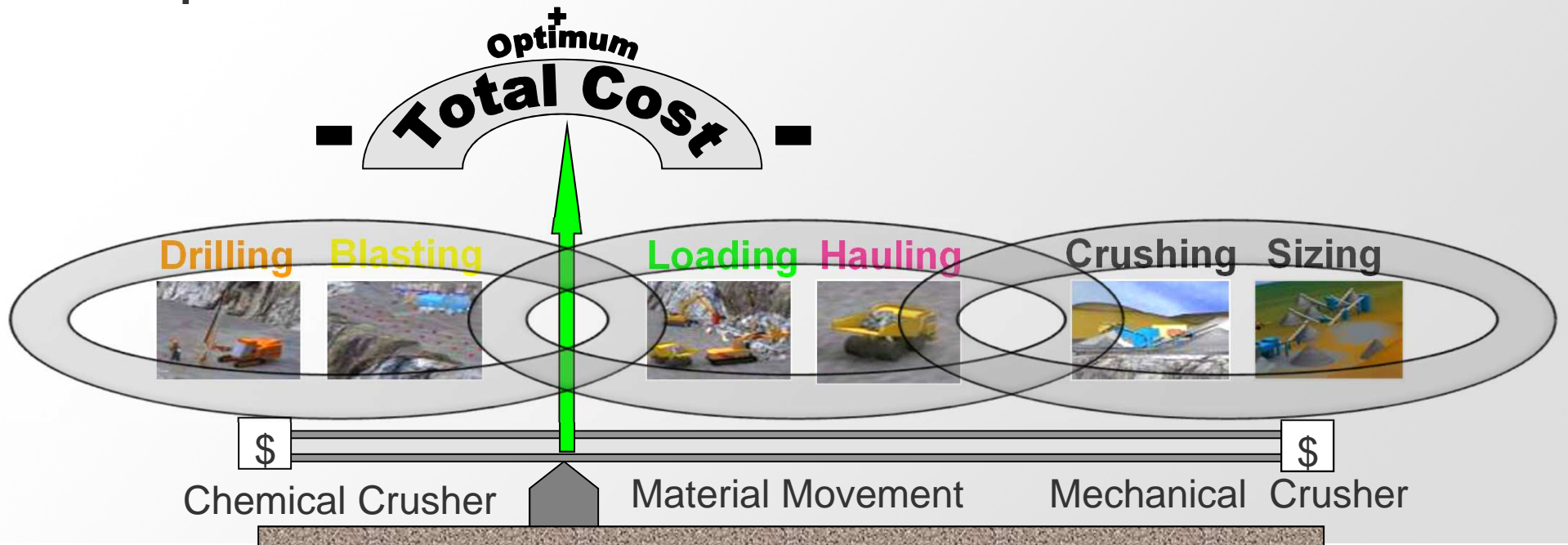


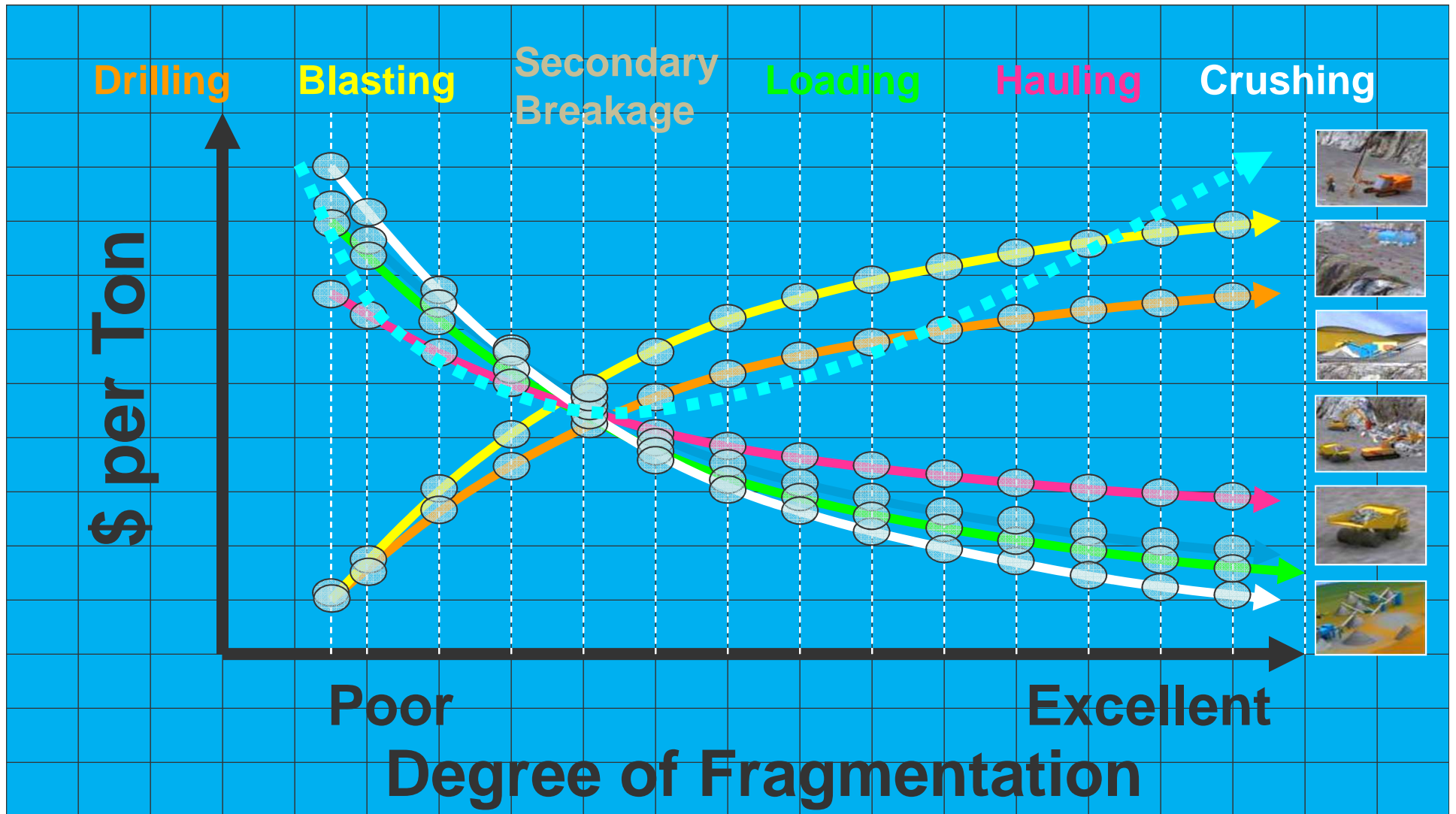
The "Silo" Costing Approach



Getting the Right Balance

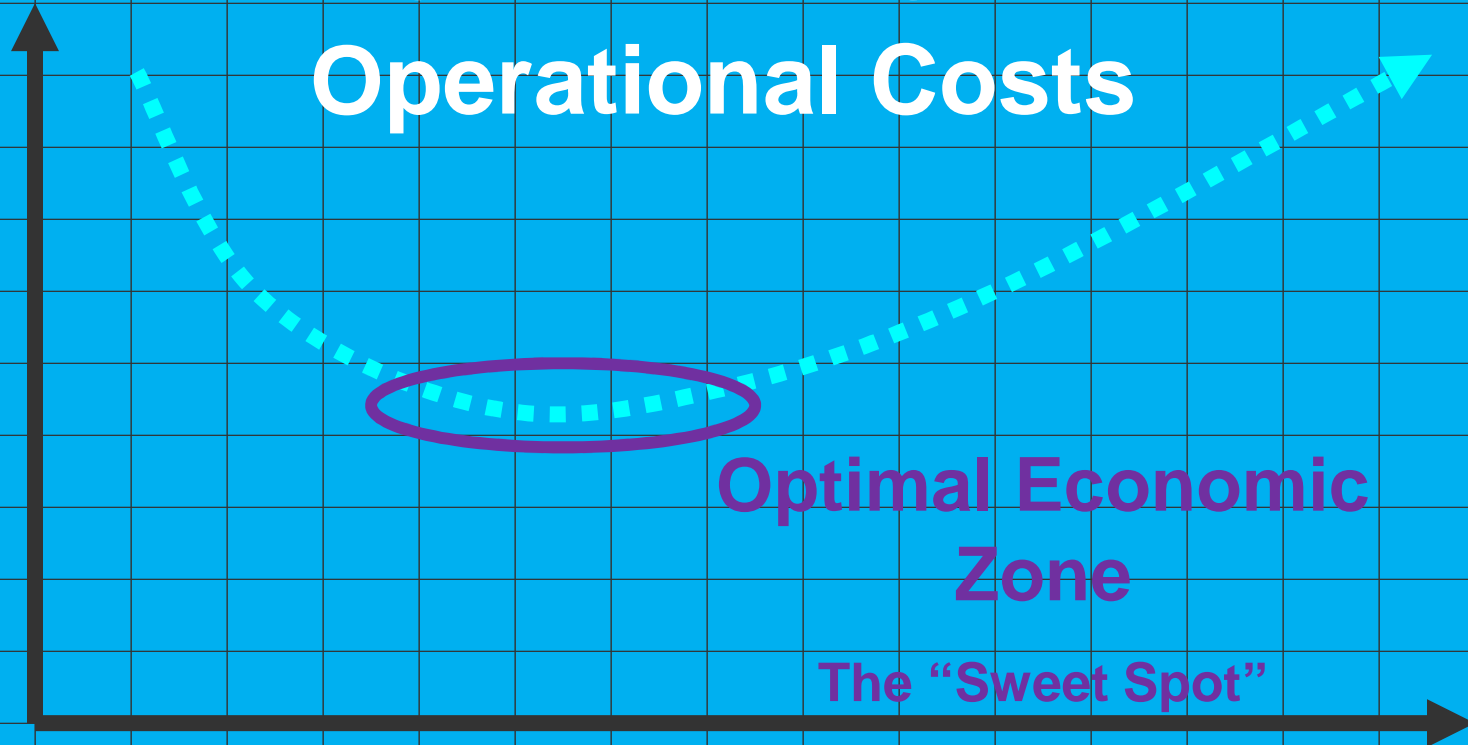
“Optimal Cost Zone”





Combined Unit Operational Costs

\$ per Ton



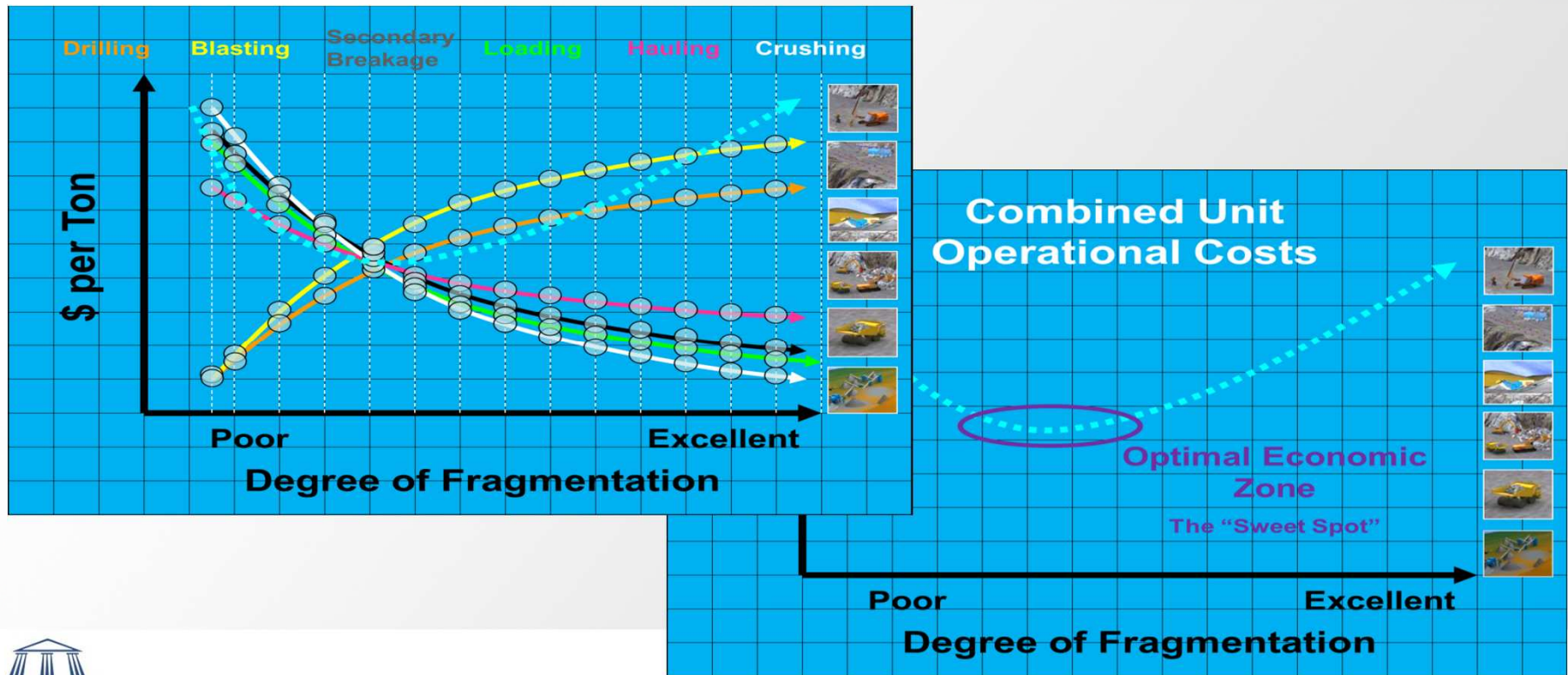
Poor

Excellent

Degree of Fragmentation



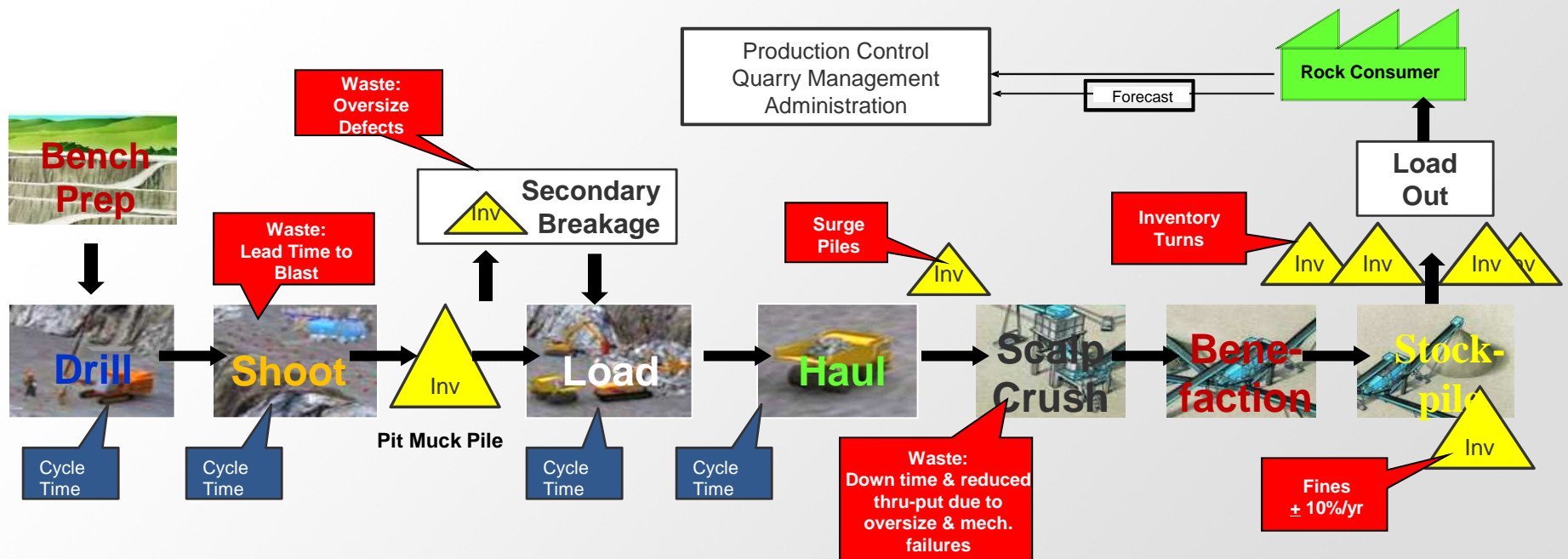
Our Goal... Improve Competitiveness



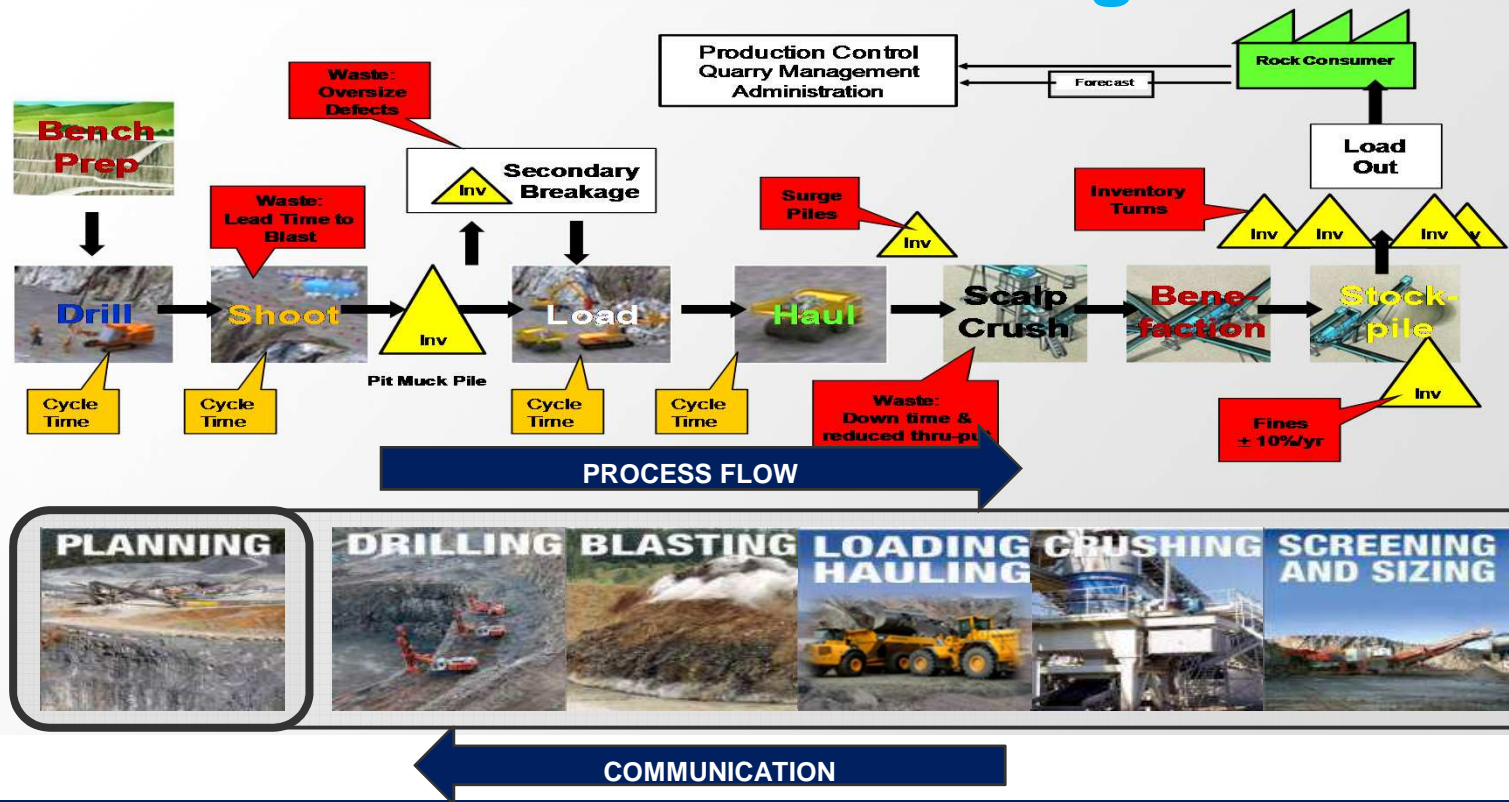
The Value Chain – Lean Thinking



Quarry Operations – Rock factory



The Value Chain / Lean Thinking



The Value Chain / Lean Thinking

Get the Waste Out of the Process...

- Time
- Movement / Motion
- Inventory

- ✓ Over-Production
- ✓ Out of Spec Product
- ✓ Under-Production



Understand The Full Customer Value Chain



**Our “Link” to a Competitive Advantage...
and we believe yours too!**

www.quarryacademy.com



Safety Planning

Renata Chlumska – leading female explorer

- rarely says no to new challenges
- performs at leading edge of human effort
- elements of a successful expedition
- focus on safety and managing risk

