

## Lean and Digitize: Prioritizing Projects to Add Value for the Customer

Bernardo Nicoletti CIO AIG GCF LATAM

Amsterdam October 27th, 2008

### Agenda



- Lean Six Sigma Methodology
- An Integrated Approach: Lean and Digitize
- The Prioritization Process
- Some Best Practices
- The Future of BPM

### Chinese Saying ....

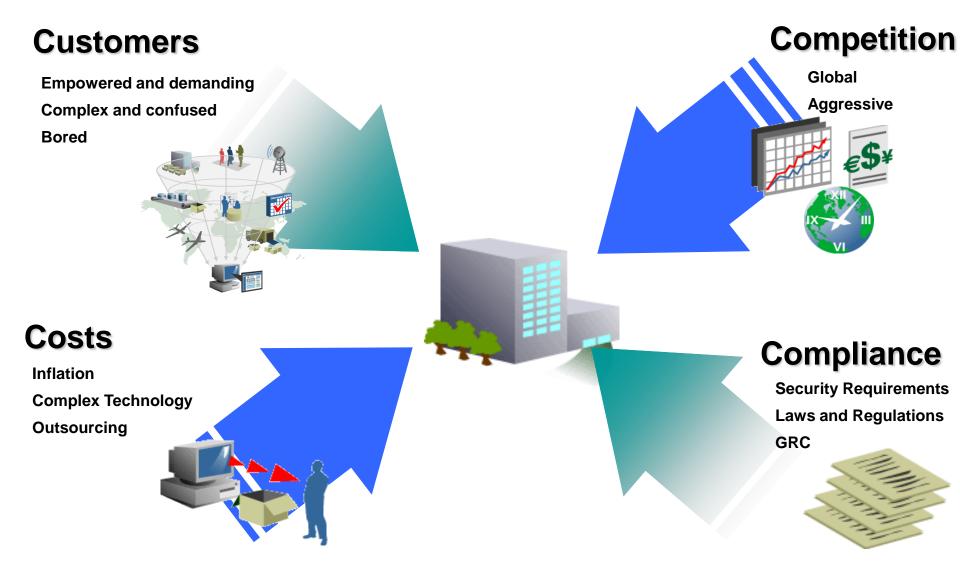
"May you live in

interesting times!"





### **Changing Environment ... The 4Cs**



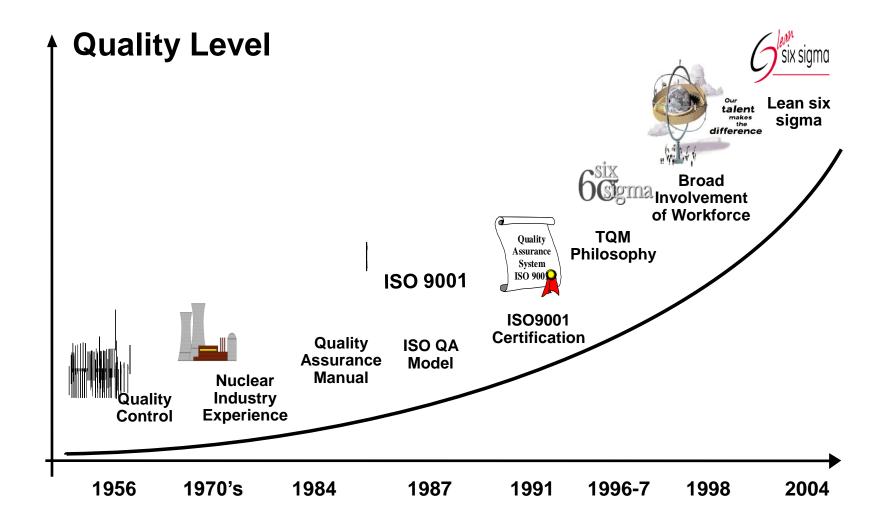
#### **Challenging Environment**

### Agenda



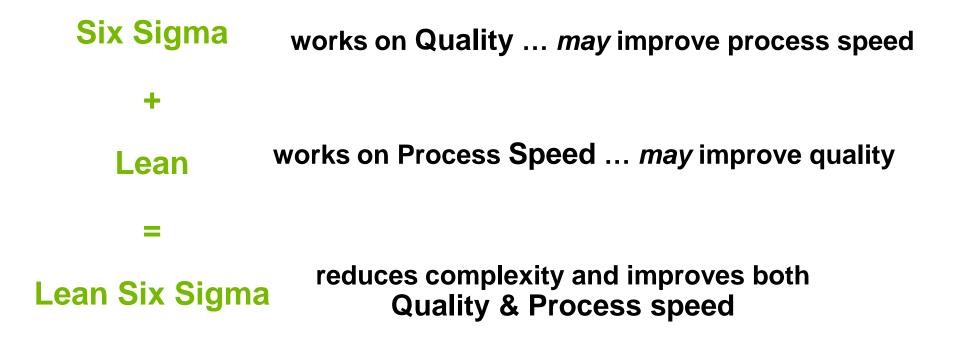
- Lean Six Sigma Methodology
- An Integrated Approach: Lean and Digitize
- The Prioritization Process
- Some Best Practices
- The Future of BPM

### **Quality ... a Darwinian Development**



"Quality is Customer Satisfaction Profitably" GE

### Lean Six Sigma ... Executing Faster & Better

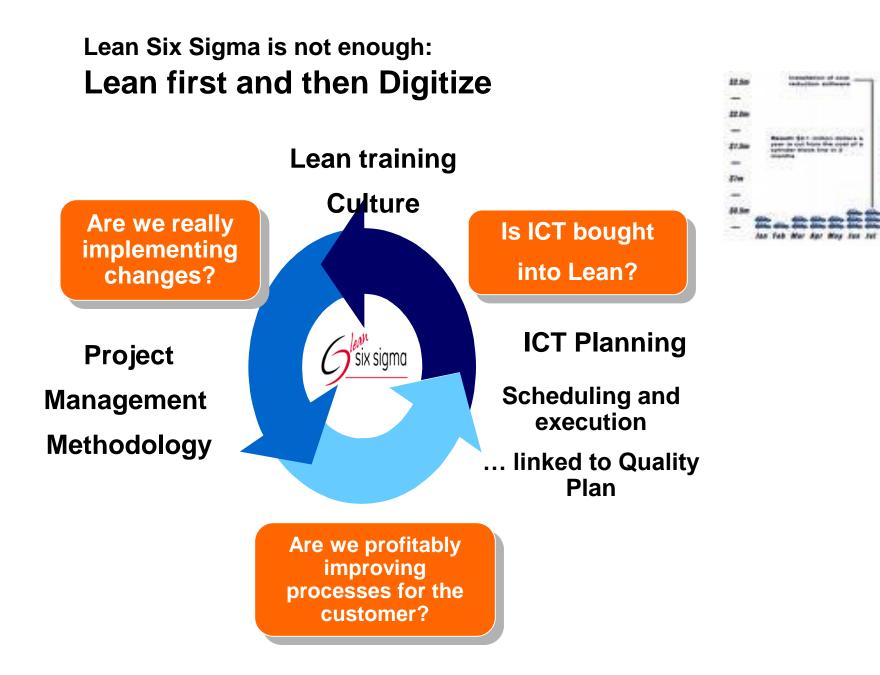


Innovate for operational effectiveness across the enterprise

### Agenda



- Lean Six Sigma Methodology
- An Integrated Approach: Lean and Digitize
- The Prioritization Process
- Some Best Practices
- The Future of BPM

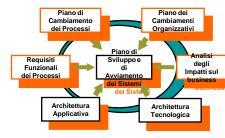


#### **Enable process driven enterprise architecture**

### The Lean & Digitize Methodology

- The Environment and the Needs
- The Vision
- The VoC and the Strategy
  - The Metrics
  - The Prioritization
- The Governance and the People in the Team
- The Components
  - Processes
  - Physical Layout
  - Digitization
- The Lean First
- The Architecture, the Build and the Deployment
- The Control and the Improvement

# *"With Six Sigma... We were able to dramatically improve our processes" Ken Lewis*



### Agenda



- Lean Six Sigma Methodology
- An Integrated Approach: Lean and Digitize
- The Prioritization Process
  - Benchmark
  - Bottom Up Approach
  - Top Down Approach
- Some Best Practices
- The Future of BPM

# Benchmark of Project Selection in Six Sigma Programs\*



- 89.0% respondents who indicate financial savings is of high or very high importance when prioritizing potential Six Sigma projects
- 76.4% respondents whose organizations require a formal approval prior to moving forward with a Six Sigma project
- 44.6% respondents whose organization always presents a business case prior to project approval
- 50.8% respondents whose company frequently or always uses a project prioritization process
- 19.9% respondents who say employees are the primary source of project ideas
- 40.8% respondents who indicate having a known solution is of high or very high importance in prioritizing projects
- 50.1 % respondents from highly unsuccessful Six Sigma programs who say "gut feel" is of high or very high importance in prioritizing projects
- O: Number of highly successful Six Sigma programs that do not have an approval process in their business
- 75.1% respondents who rate their Six Sigma initiative as highly or somewhat successful
- 78.3 % respondents whose senior management is very or somewhat committed to Six Sigma

\* Jonathan Atwood, SixSigma Magazine, March 2005, 988 Respondents

### Lean at Bank of America

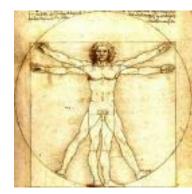


### Below is a list of projects and savings generation results at Bank of America:

- \$1.3 M Savings: Reduce Cost of Relocating New Hires
- \$5 M Revenue: Improve Lockbox Deposit Availability
- \$30 M Revenue/\$1.5 M Savings: Measure Return on Sponsored Events
- \$7.8 M Revenue: Retain Customers Who Move Within Footprint
- \$950,000 Savings: Complete Federal Tax Return Faster
- \$6.6 M Loss Reduction: Reduce ID Theft Through "Account Takeover"
- \$2 M Revenue: Improve Results From New Sales Hires
- \$10.7 M Revenue: Improve Customer Referrals From Tellers
- \$3.6 M Revenue: Improve Credit Card Sales

"Since launching our Six Sigma efforts, we've saved hundreds of millions of dollars in expenses..." 2003 Annual Report to Shareholders

### Focus on Customer value (Bottom Up)



Use Failure Mode Effects Analysis (FMEA).

- Determine your vision.
- Measure Cycle Times and Cost of Poor Quality of all products line.
- Once few (hopefully) worst product lines are identified, create a
  process flow chart for each product, determine all possible defects at
  each process steps and how you could accelerate the process time
  by eliminating waste (non value added steps).
- Focus on critical customer value aspects by prioritizing actions for your limited resources.
- Perform sensitivity analysis

### **The Vision**

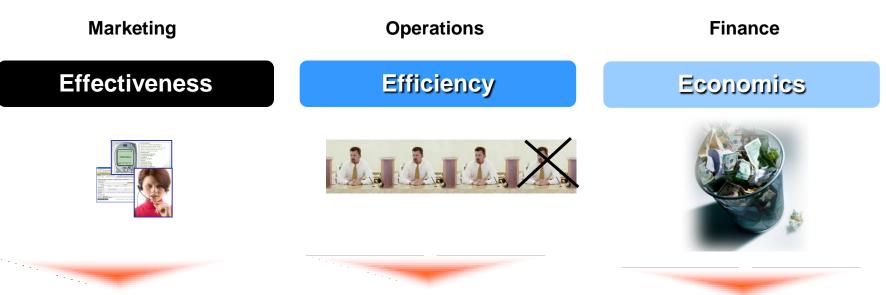


### Get a Competitive Advantage in the Business

- Build a rich customer value
- This normally requires strategic differentiation
- Reduce operational costs and increase efficiency
- Improve agility and time to market for the introduction of new products

*"53%of the institutions surveyed identified customer service as one of their top 3 competitive advantages..." Economist Intelligent Unit* 

### The Metrics ... 3 E



Customer Loyalty/Advocacy/Satif action Customer Value Cycle Times Defects Adherence to Specs Service Experience Accuracy Value-added features

Frontline Productivity Total Cycle Time Resources Used Amount of Rework

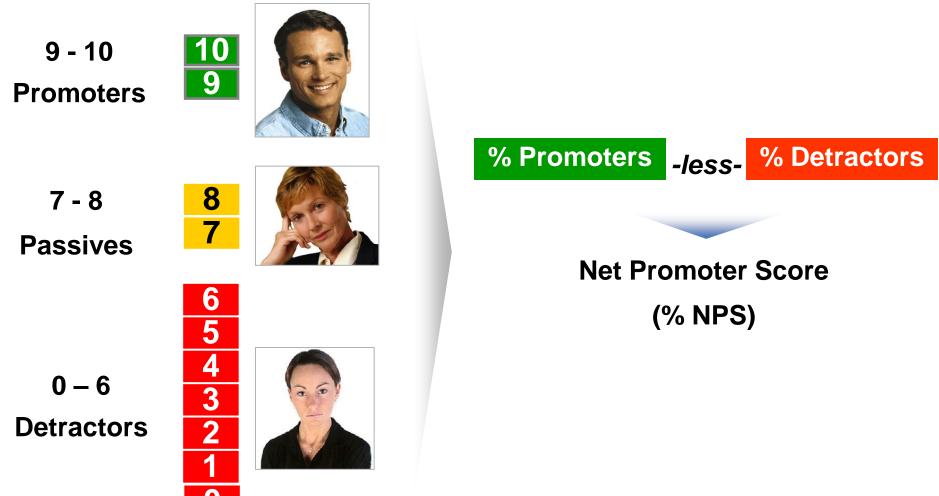
Eliminated Waste Frontline Costs Cost of Defects

#### The Ultimate Measure is the NPS (Net Promoter Score)

### NPS – Net Promoter Score (Top Down)

**Question to your customers:** 

"On a scale 0-10 (where 0 means you would not recommend under any circumstances, and 10 means you definitely would recommend), how likely would you be to recommend our company?"

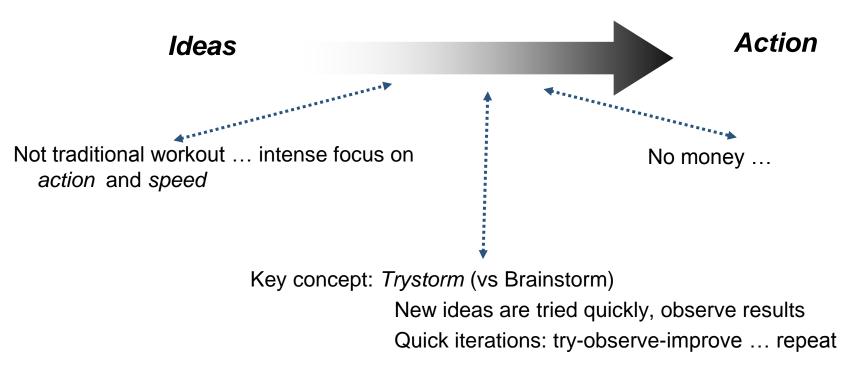


The People ... R=Q\*A

### **The Action Workout (AWO!**

The change process to apply the Lean and Digitize tools ... target waste with Value Creation Teams



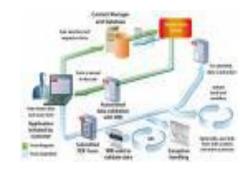


#### "Ask the questions that will lead to the possible insights" Jim Collins

### Agenda



- Lean Six Sigma Methodology
- An Integrated Approach: Lean and Digitize
- The Prioritization Process
- Some Best Practices
- The Future of BPM



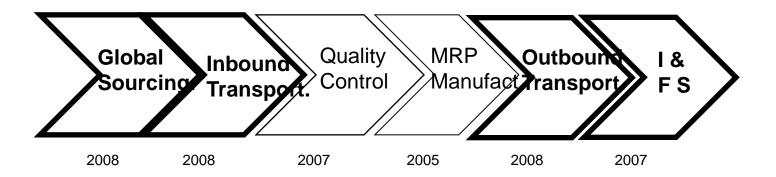
### **The Lean Logistics Architecture**

Implement a set of improvements and best practices which allow the Business to gain competitive advantages through a better logistics system, while removing the "waste" in:

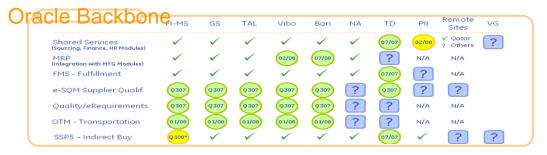
- The process path
- The physical path
- The digitization path

"... information systems have to do more than manage huge amount of financial data..." Bill Gates

# Completing the Transformation of the Supply Chain Process with Logistics

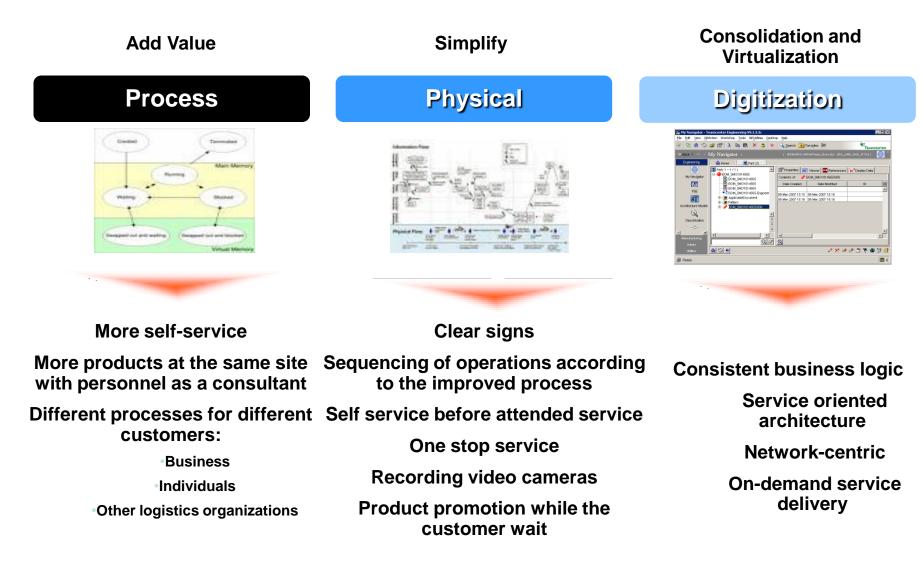


### **One Lean Supply Chain Process for the entire Business**



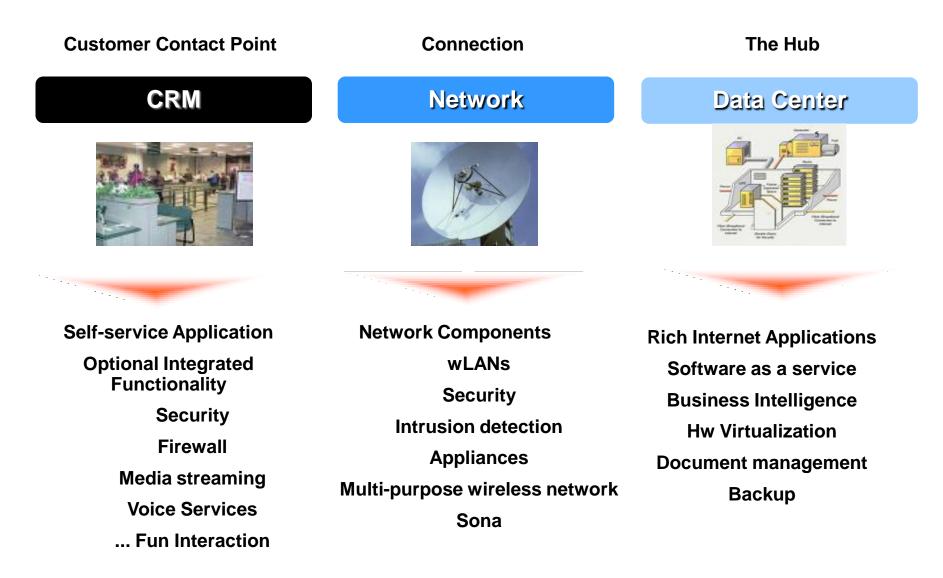
**Stressing the Quality of Service** 

### **The Components**



"Services Organization can no longer let BPM pass..." Michael Hammer

### **The Architecture**



"High performance processes require new information systems" Michael Hammer

### The Governance

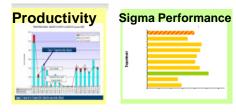


- The Champion ... The Top Level Executive sponsoring the project
- The Steering Committee ... All the Executives involved in the initiative
- The Lean Leader ... The Facilitator ... Full time job
- The Team Coordinator ... The Project Leader from the Department more affected for the process ... For the duration of the project (including the Digitization phase) ... In charge of the planning, monitoring and managing the team
- **The Team Members** ... From the various departments interested plus Information Technology ... Either full or part time for the entire duration of the projecty

### **The Improvement**

Elements	Gen 1	Gen 2	Gen 3	
Vision	Replace existing legacy system. Standardize tools and process	Controllership on carrier invoices Track of Transportation costs	Maximize shipments optimization	
Key Functionality	<ul> <li>Shipment creation</li> <li>Shipment execution</li> <li>Arrival</li> <li>Doc. Mgt</li> <li>RC access</li> </ul>	<ul> <li>Rates &amp; Approval process</li> <li>Carrier access</li> <li>Cost allocation</li> <li>Interface with Holding systems</li> <li>Alerts</li> <li>Inventory checks</li> </ul>	<ul> <li>Planning &amp; Consolidation</li> <li>Freight Settlement</li> </ul>	
Target Customers	<ul> <li>Manufacturing planners</li> <li>3PL</li> <li>Logistics team</li> <li>Finance</li> </ul>	<ul> <li>Manufacturing planners</li> <li>3PL</li> <li>Logistics team</li> <li>Finance</li> </ul>	<ul> <li>Manufacturing and servicing planners</li> <li>3PL</li> <li>Logistics team</li> <li>Finance</li> </ul>	
Target Processes	<ul> <li>Inbound</li> <li>Outbound</li> <li>Farmout</li> <li>Interplant</li> </ul>	<ul> <li>Inbound</li> <li>Outbound</li> <li>Farmout</li> <li>Interplant</li> </ul>	<ul> <li>Inbound</li> <li>Outbound also with serviced customers</li> <li>Farmout</li> <li>Interplant</li> </ul>	
Technology Requirements	<ul> <li>OTM (web based application)</li> <li>Oracle DataBase</li> <li>BPEL middleware</li> </ul>	<ul> <li>OTM (web based application)</li> <li>Oracle DataBase</li> <li>BPEL middleware</li> <li>Distance Engine Software</li> </ul>	<ul> <li>OTM (web based application)</li> <li>Oracle DataBase</li> <li>BPEL middleware</li> <li>Distance Engine</li> </ul>	
Multi-Generation Project Planning				

### The Benefits ... Some Examples





#### 

Sustainable cost reductions of €250m p.a. to be

realised by year end 200Headcount in back office to be reduced by roughly

500 in Germany within same period

Results in improved business process In shorter time and at lower cost



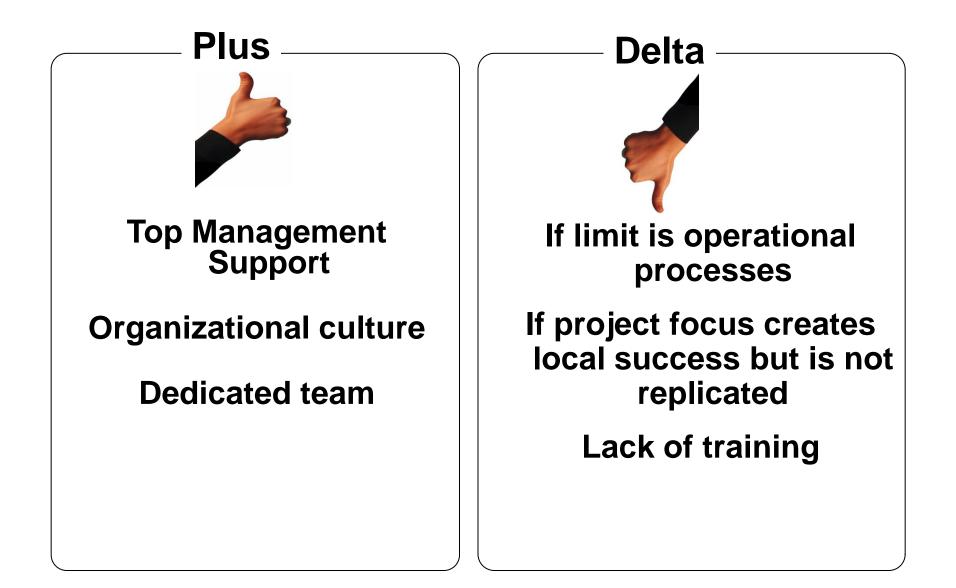
INTESA M SNNPAOLO

Reduction of 65% in the operations through Six Sigma in some processes

\$2.1m savings 16% increase in satisfaction score

"There's too much waste in banking.." Carl E. Reichardt , Wells Fargo

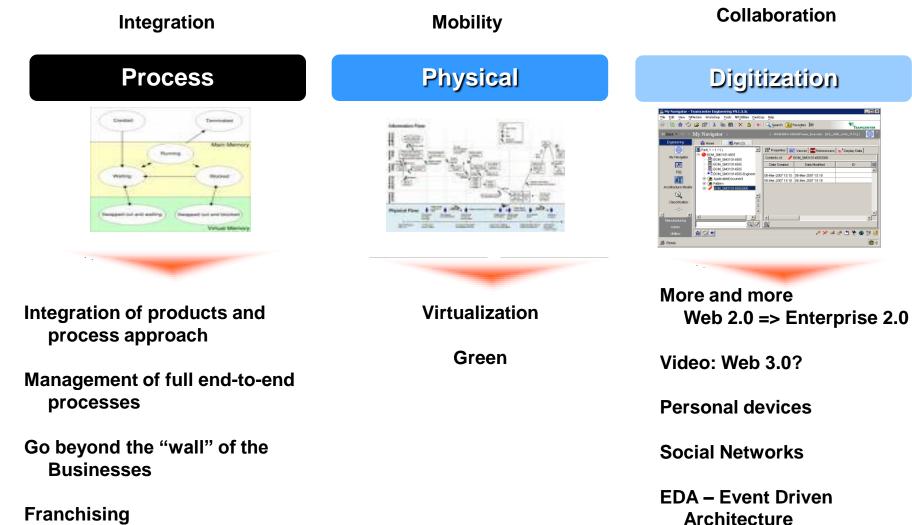
### **The Challenges**



### Agenda

- Lean Six Sigma Methodology
- An Integrated Approach: Lean and Digitize
- The Prioritization Process
- Some Best Practices
- The Future of BPM

### The Future of BPM



Franchising

"The Ubiquitous Bank" Forrester Research on 2023 Banking

### Summary



Long Term Commitment to Change and Process Transformation



Lean and Digitize creates effective processes, lock in them and reduces implementation time



Standardizing the evaluation of projects ensure consistency in the decision making process



Intelligent compliance and risk management framework are essential



From DMAIC to DMIACR, where R stands for Replicate



Packages with workflows and parameters greatly help

22	-
	e.

Monitor Performance and Adjust

#### Communicate ... Communicate ... Communicate

### Thank You – Any Question ?



Bernardo Nicoletti CIO <u>Bernardo.nicoletti@katamail.com</u>

+39 348 470 7016



## Appendix

### Resume



- Born in Salerno, Italy
- Fulbright Scholar with a Master from Carnegie Mellon University and a Degree from the Polytechnic of Turin, Italy
- Worked in 10 Countries in several companies
  - MIS and CTO in Alitalia
  - Project Leader in Airplus
  - Program Leader in Galileo
  - CEO in Sigma Plus
  - CTO in GE Money
  - CIO in GE Oil & Gas
  - Management Consultant
  - CIO in AIG CFG Latin America
- Master Black Belt