

**STEVE TREBBLE**

**A**ssociated  
**S**olutions



# Doing Business in a Changing World

## World Population Census

1804

1 Billion

1927

2 Billion

1960

3 Billion

1974

4 Billion

1987

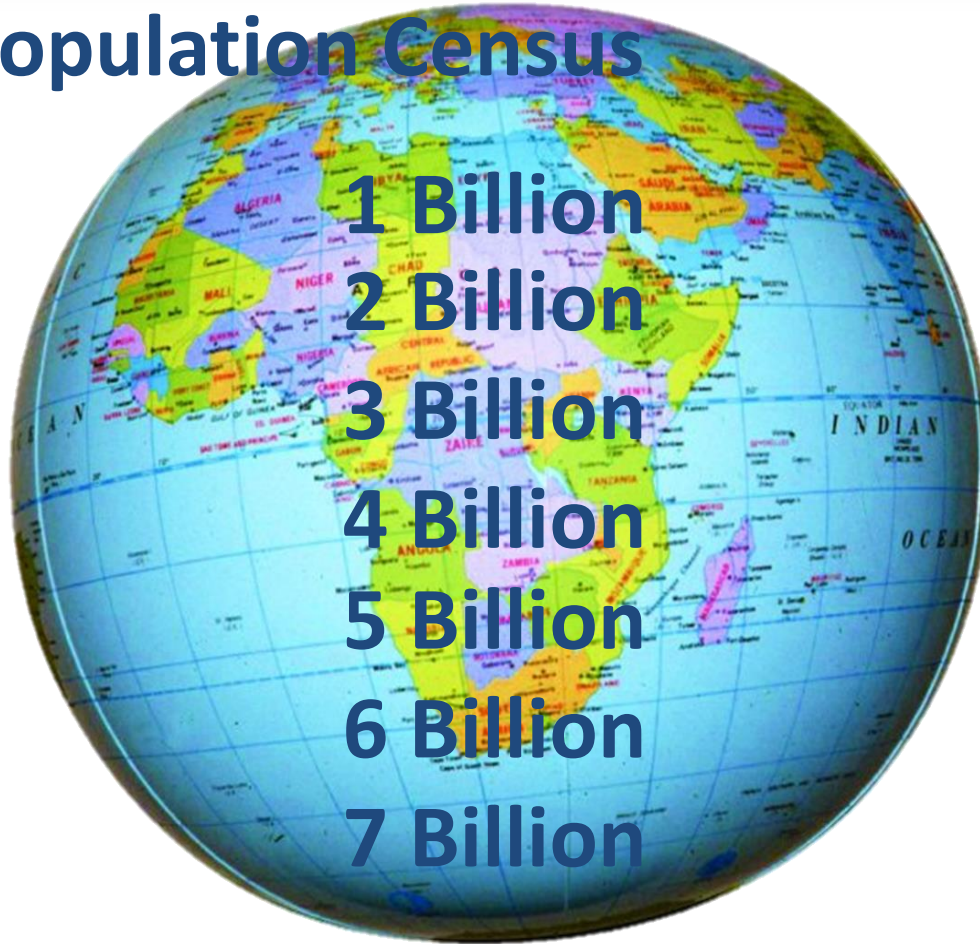
5 Billion

1999

6 Billion

2011

7 Billion



**Suggested improvements  
are not criticisms of your  
current method of  
operation**



**Business case for increased  
productivity**

**Business case for increased  
production efficiency**

# Labour Market

**Masses of cheap labour**

**NFLW introduced 2007**

**Lack of alternative employment**

**Weak trade unions**

**Weak NGO's**

**Brands CSR undeveloped**

**Communication**

# Key Performance Indicators Your Workforce

Labour Turnover



Ability to Recruit

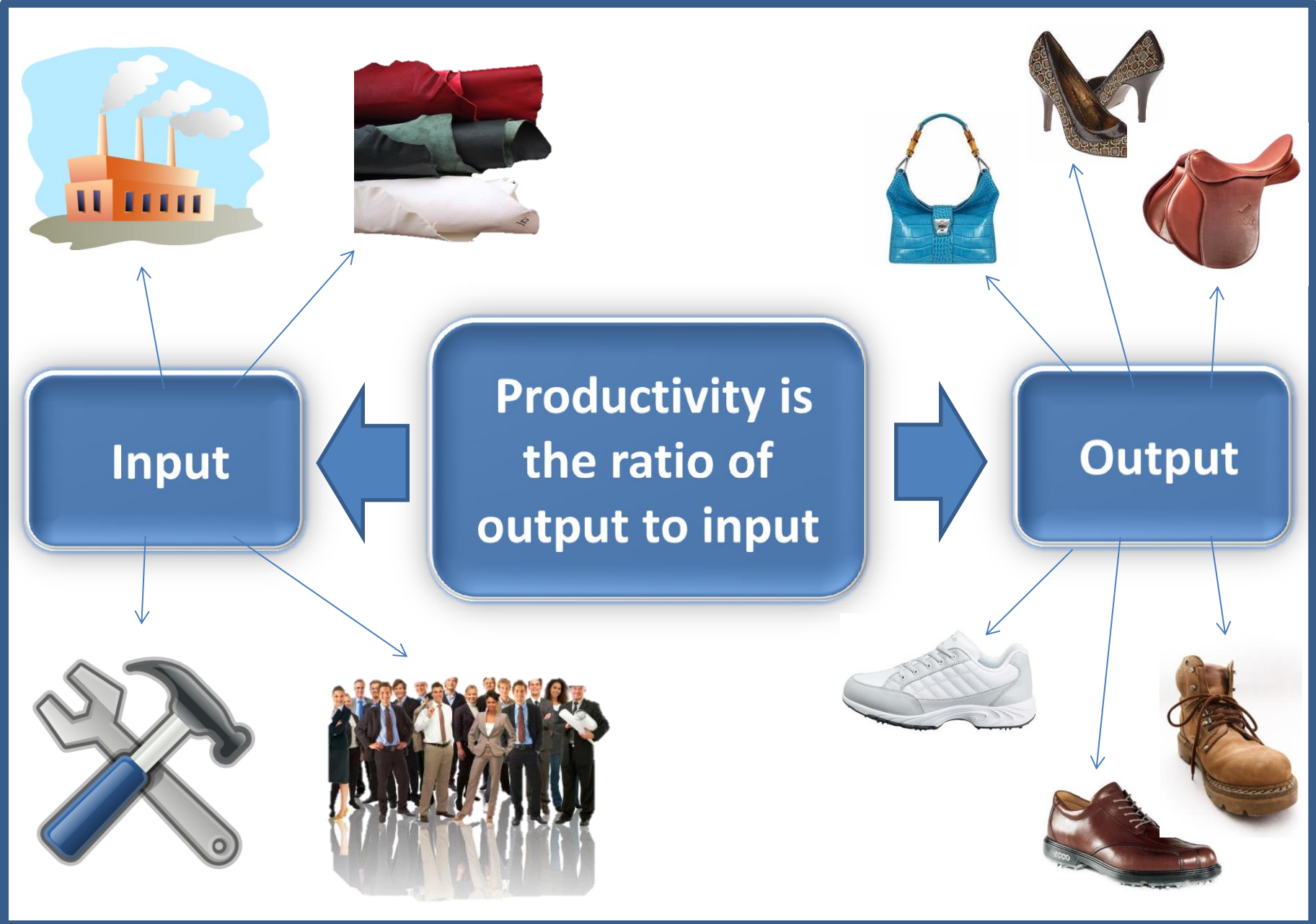


Absenteeism



Company Moral









*Associated Solutions*

Can you simply measure  
work with a watch?



Associated Solutions

# Method Study

**Systematic recording**

**Critical analysis**

**Principles of easy movement**

**Principles of ergonomics**



# Time Study

Time for qualified worker

Perform specified task

Defined 'rate' of performance



# Concept of rating performance

**Studying WORK is a huge  
amount of WORK**

**200**

**Exceptionally fast intense effort  
short periods only few outstanding  
workers**

# Synthetic Systems

**Motions**



**No rating involved**



**No written method**

# SatraData Productivity

Method improvement -  
inherent



Time allowance



Load – Plan - Balance



# SatraData Productivity

Method improvement -  
inherent



Time allowance



Load - Plan - Balance

Increased  
Productivity

# SatraData Efficiencies

**Improved quality**

**Delivery Schedule Adherence**

**Lead time**

**Work in progress**

**Repeat orders**

**Preproduction**

**Payment system**

# SatraData Efficiencies

Improved quality

Delivery Schedule Adherence

Lead time

Work in progress

Repeat orders

Preproduction

Payment system

Increased  
Efficiency

# Benefits of SatraData

Increased  
Profitability

Delivered as expected

**SATRA**



TECHNOLOGY  
CENTRE

# Vision Stitch

Associated Solutions

# VisionStitch Efficiencies

**Productivity + 15%**

**Quality + 5%**

**Start up – 30%**

**Reduced Training**



**Associated Solutions**



The background of the slide is a vibrant red. Scattered across this background are numerous US dollar bills of various denominations, including \$100, \$20, and \$10 bills, which appear to be falling or floating in the air. The bills are shown from various angles, some partially obscured, creating a sense of motion and abundance.

# SatraSumm



# SatraSumm Efficiencies

**Material management**

**Cutter training**

**Material utilisation**

**Environmental impact**

**Synthetic materials**

**Planning**

**Payment system**



**Associated Solutions**

# Suggested Action Plan

**Health check inputs**

**Satra Systems**

**Sustainable**

**Any  
Questions?**