



Who put this here?

How a Technical & Logistical Master Plan can be used as a Strategic and Tactical Tool for improving your business

Author: Brandon Schmid

Date: October 2018

Email: <u>Brandon.Schmid@ricgroup.net</u>

RIC land Line: +27 11 8870795

Cell: +27 84 200 2655



Business Benefits

How do you:



Reduce your capital expenditure



Delay your capital expenditure



Reduce your operating expenditure



Improve your operational efficiency



Create agility in your sites development





The Solution











Develop a TLMP

(Technical & Logistical Master Plan)



Establishing your true Current Site

Capacity

Determining you Sites
Ultimate
Capacity

Planning the Expansion of your Site

Establishing the Sensitivity of your Site



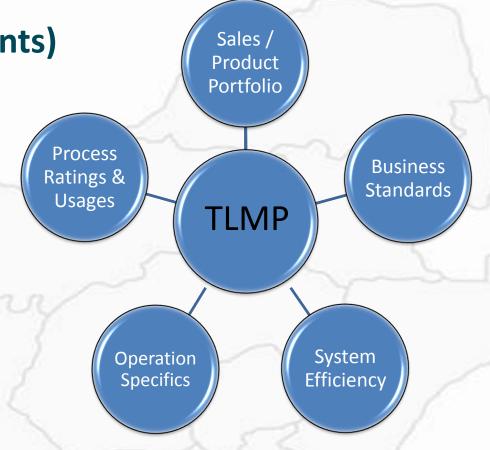


RIC (Rieger Industrial Consultants)

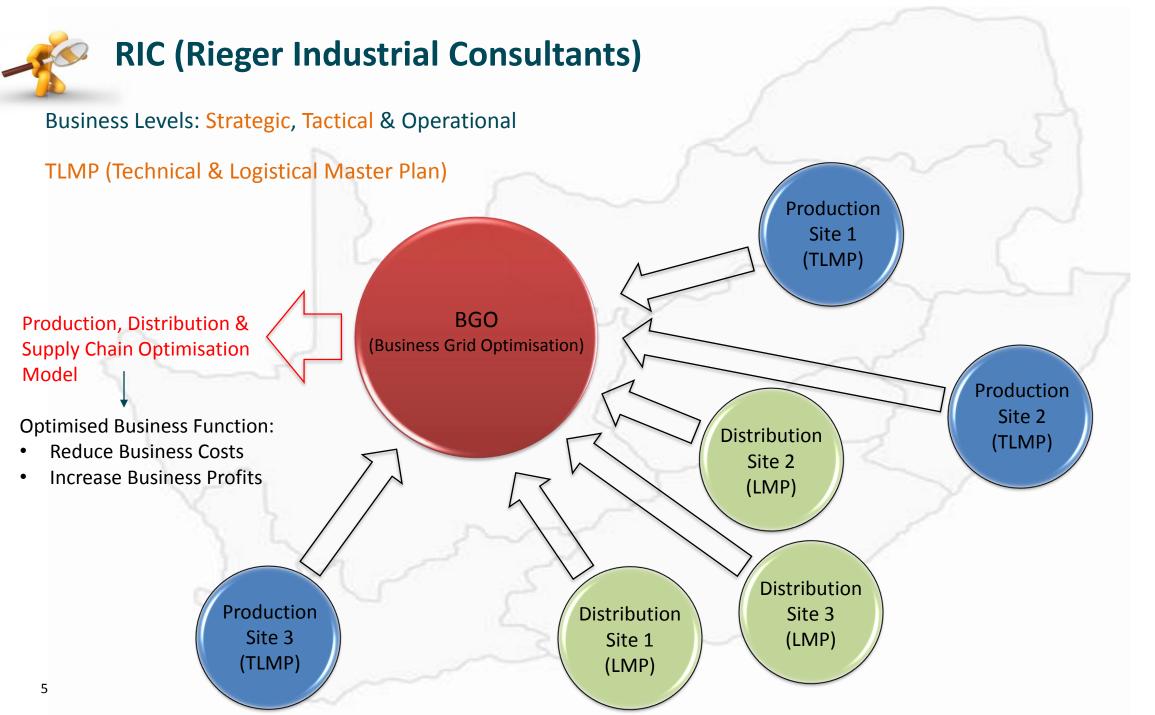
Business Levels: Strategic, Tactical & Operational

TLMP (Technical & Logistical Master Plan)

- Evolution of Site Development Plan
- Includes: Modelling Element + Layout Element







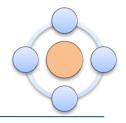




Manufacturing

Service

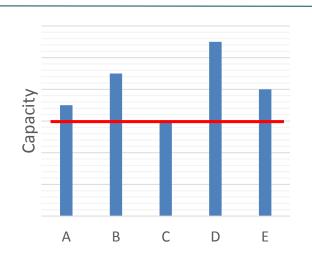
Establishing your true Current Site Capacity

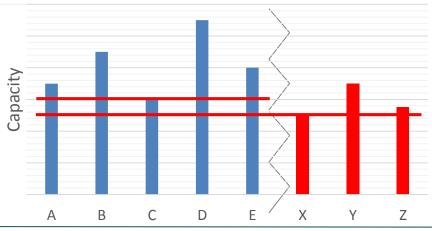


• Examples of Quantified Aspects:

• Production & Packaging Equipment

- Utilities Equipment
- Warehousing & Raw Material Storage
- Service Desks
- Theatre Rooms
- Weighbridge
- Gatehouse & Parking Space
- Queuing Space (people, trucks, cars, ...)
- Offloading / Loading
- Office Space, Call Centre, etc.





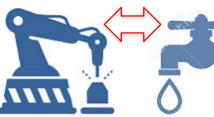
Key Elements:

- Holistic analysis
- Accurate capacity modelling
 - Understand the details
 - Effects of upstream & downstream processes

- Reduce your capital expenditure
- Delay your capital expenditure











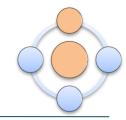






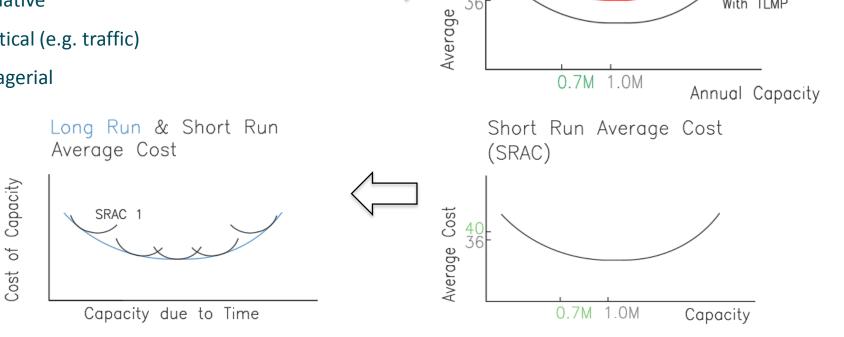


Determining your Sites Ultimate Capacity



Examples of Ultimate Site Capacity Constraints

- **Space Availability**
- **Restricted Consumables & Resources**
- Legislative
- Logistical (e.g. traffic)
- Managerial



Cost













Average Cost of Installed Capacity

(with vs without a TLMP)



Without TLMP

With TLMP

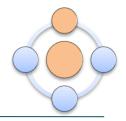






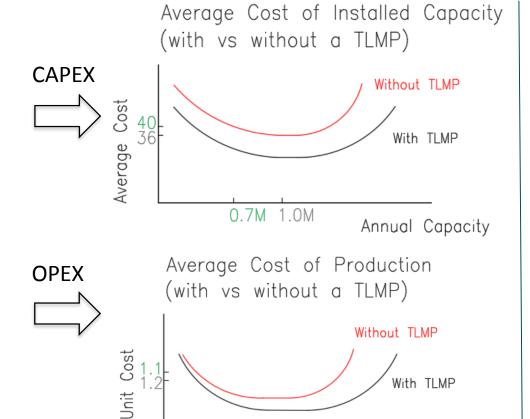


Determining your Sites Ultimate Capacity



Examples of Ultimate Site Capacity Constraints

- **Space Availability**
- Restricted Consumables & Resources
- Legislative
- Logistical (e.g. traffic)
- Managerial



Key Elements:

- Understand the constraints
- Holistic analysis
- Plan for constraint flexibility

Benefits:

- Reduce your capital expenditure
- Delay your capital expenditure
- Reduce your operating expenditure













0.7M 1.0M



With TLMP

Output

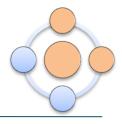




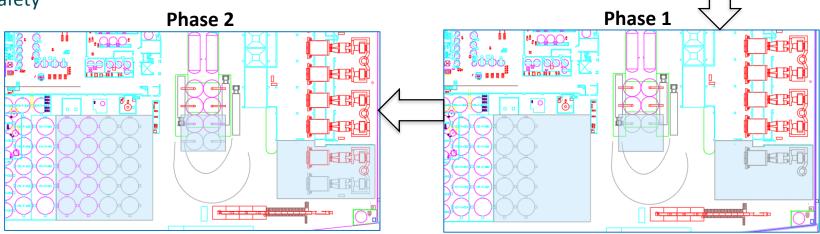




Planning the Expansion of your Site



- Examples of Analysed Criteria
 - Cost of expansion
 - Travel distances (employee, forklift, truck, etc.)
 - Site service reticulation distances
 - Flexibility
 - Safety



Measured, Compared & Scored

Site Ultimate

Key Elements:

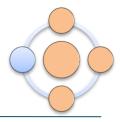
- Prioritise the criteria
- Holistic analysis
- Plan for flexibility

- Reduce your capital expenditure
- Reduce your sites operating expenditure
- Improving your sites operational efficiency
- Create an agile site

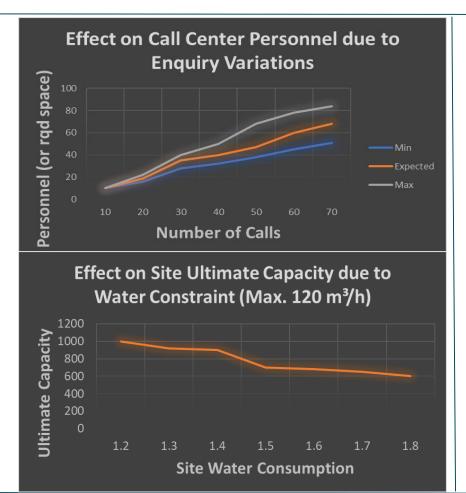




Establishing the Sensitivity of your Site



- Examples of Analysed Scenarios
 - Change in sales (volume & SKU % split)
 - New product developments / introductions
 - Evolving site efficiencies
 - Changing business standards



Key Elements:

- Understand the business and its vision
- Model flexibility
- Data integrity

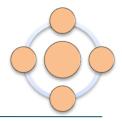
- Creating an agile site
- Reduce your capital expenditure



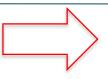




Developing a Safe Working Environment



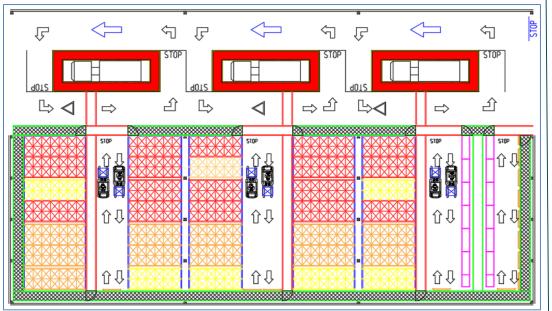
- Dimensions of Site Safety
 - Procedural
 - Demarcation & signage
 - Physical separation (e.g. a barrier)
 - Complete separation



Built into your sites development

Safety at Source





Key Elements:

- Understand the risks
- Familiarisations with safety solutions
- Innovative

- Improve a sites operational efficiency
- Reduced liability

















The Conclusion





Strategic & Tactical Tool



Reduce your capital expenditure



Reduce your operating expenditure



Delay your capital expenditure



Improve your operational efficiency



Create agility in your sites development

Determining you Sites Ultimate Capacity

Developing a Safe Working Environment your true
Current Site
Capacity

Planning the Expansion of your Site

Establishing the Sensitivity of your Site





Thank You



