



#### JAGUAR LAND ROVER OPERATIONAL EXCELLENCE OUR JOURNEY TO DATE

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#### 11<sup>th</sup> June 2013









## We had a plan



#### Our Driver:

From no engine manufactured in Jaguar land rover for over 16 years to Engine Self Sufficient by 2020 The JLR Enterprise Strategy plans to build 3 Engine Plants (UK, China & India) by 2018 This required a Sustainable Powertrain Manufacturing Capability to be developed from scratch

- 2011 3 heads & 1 Consultant
- 2012 120 heads
- 2015 500 heads (Job #1 Jan 2015)
- 2017 1400 heads
- 2020 2000+ heads (UK only)

Creates a requirement to Manufacture 700,000+ engines a year (I4, I3, I6, V8) £800million investment in Global Powertrain Manufacturing

## With high expectations



We had too:

Execute a Flawless Launch (Quality, Cost, Schedule) Spend £500million Capital Efficiently – Maximise the return from Investment

The Stretch:

Create Something Special (World Class) and shift the JLR Operations paradigm

How – when we face the perfect storm ? New Engine Design New Factory New People New Customer (x760)



## Assessment of My Organisation -Day 1

**August 2012** 



**FUTURE STATE** 

Manuf Eng. Production GOP X Lean Systems Manuf Eng. Production Lean Systems ALIGNMENT & INTEGRATION

#### What Does Great Look Like ?



#### Senior Team – US Study Tour Nov 2012







- > They all had a burning platform to initiate the journey
- Everywhere we visited had an air of calm from shop-floor personnel to Senior Leadership
- Development of their people was key from Leader to Associate not only via training but by quality 1:1's too!
- Complete Leadership buy-in with evidence of buy-in within the whole organisation (with relatively few casualties)
- Everybody in the organisations had clarity of their purpose: Values, Mission, Vision, Goals
- > They all had a dedicated Continuous Improvement departments
- Key to develop at least as many 'problem solvers' as 'problem finders'
- Time allocated in the standard day to develop and deploy improvement activities
- > Very visible Leadership ! For example, go-look-see walks, 1:1's, Process Confirmation etc.

## **Operational Excellence**



Operational Workshops took place before and after our Study Tour and included a two day Strategy Workshop where we worked on the following:-

- Powertrain Values
- Powertrain Vision
- Powertrain Mission
- Powertrain Goal



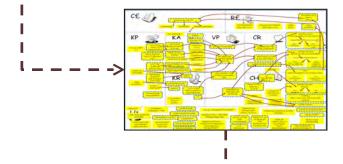
#### Compelling Reason (The Customer)

To enable every individual to articulate our purpose and to lead the journey we will go on and ensure we obtain the commitment of all the team in delivering our goals

### Powertrain' Operational Excellence



*Business environment (Influence & Dependency)* 



*Business model canvas* (*Define our Core Purpose*)



Vision, Mission, Goal



CAPABILIT



## **Operational Excellence: Vision, Mission, Goals**



Our Mission	To power the freedom and fulfilment in peoples lives	
Our Vision 10-30 year breakthrough	Creating a legacy for generations to come through a tenacious approach to continuous improvement. We will be the benchmark for excellence across the globe. A proud and passionate family who live the 'NURTURE FIRST' values to create a supportive learning environment where there is equality and mutual respect for all.	
Our Goal	To transform the way in which engines are manufactured to be recognised as the new global benchmark for excellence!	
Strategic Objectives Financial	To create a robust cost management structure that delivers on or below target	
Customer	Set new standards to deliver reliable and dependable engines to our customers	
Infrastructure		nterprise alignment d integration
Learning & Growth		develop and grow capability
Enablers	Several and Building Transmitter Family	Quality Managament Eq. (ty Standardination
People and the 'NURTURE FIRST' values	NURTURE FUN INTEGRITY Devides people to Dear Aufli potential Dear Aufli potential Dear Aufli potential	e Loss is more Shriving for outditures there in overfling we do no of and in overfling we do no overfling we do no overfli

## **Operational Excellence: Our Lean Engine**





#### **POWERTRAIN OPERATIONS (PTO)** A Values Driven Organisation



## NURTURE F I R S T





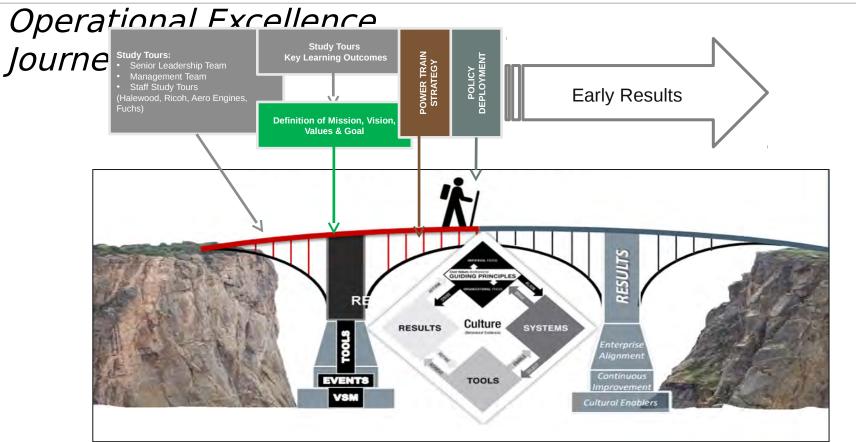
#### **Powertrain Operations - The Reality!**





### **Powertrain' Operational Excellence**



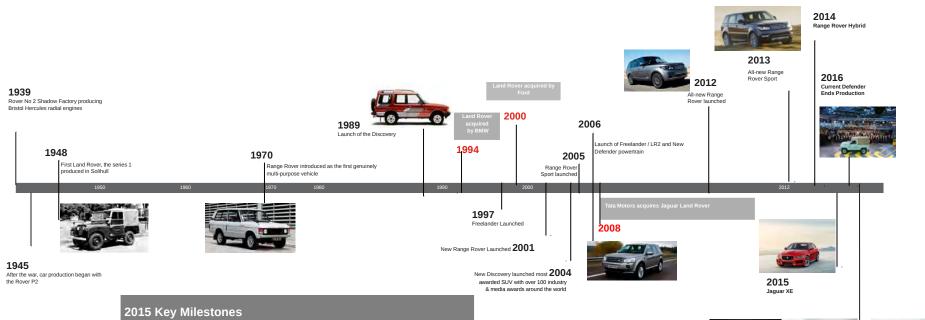


## So that was the easy bit! - Welcome to Solihul



#### **Solihull Operations - History:**





- 70 years of car production
- 45 years of Range Rover
- 25 years of Discovery
- 25 years of Land Rover Experience





2016 Land Rover Discovery & Jaguar F-Pace

2017 Land Rover Velar

#### **Solihull Operations - Vehicles:**





RANGE ROVER

RANGE ROVER SPORT

RANGE ROVER LONG WHEEL BASE



#### **Solihull Operations - Core Capability:**







STAMPINGS

**3 X BODY SHOPS** 

PAINT SHOP



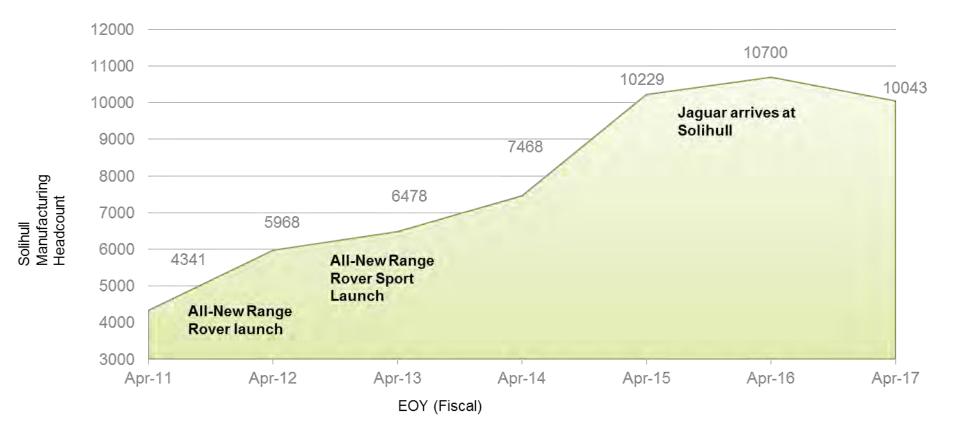
2 X FINAL ASSEMBLY HALLS

VEHICLE HANDOVER CENTRE

LAND ROVER EXPERIENCE

#### **Solihull Operations - Our People:**





#### **Solihull Operations - Transformation:**







## ...a culture where success is inevitable...

# This is our greatest opportunity to outline the scale of our ambition.

#### **Solihull Operations - Transformation:**





ΤΑΤΑ

We are part of Tata Motors, whose business excellence model has been moulded to deliver strategic direction and drive business improvements.

It contains elements that enable companies following its directives to capture the best of global business processes and practices.

#### JAGUAR LAND ROVER

We have One Company Purpose: to deliver Experiences Customers Love, For Life. Our Blueprint for Lasting Success identifies the framework & values that underpin our approach

#### JLR MANUFACTURING

Identifies 12 elements which form the top level manufacturing strategy. Delivering a competitive Global Manufacturing Network on a roadmap to 2020/21.

These are aligned to the JLR Blueprint and are used to shape our own targets for the plant.

#### SOLIHULL OPERATIONS

As the largest and most profitable manufacturing plant, Solihull plays a leading role in delivering on the promises we make to our customers.

We have captured our nine Goals for what Solihull Plant needs to become on our "9 box" Vision.

### **Solihull Vision: Constancy of purpose:**



- Our *Ambition* and *Commitment* to this aim will be *Relentless.* 



#### **Operational Excellence "Systems" Strategy:**



#### BUSINESS PERFORMANCE: TRANSFORMATIONAL WORKSTREAMS



SENIOR LEADERSHIP DEVELOPMENT Creation & Execution of a 3 pronged strategic approach to Leadership Development: 1. Technical - Lean Leadership & Systems / 2. Personal -Developing Emotional Management & Resilience / 3. Commercial & Financial Acumen (IBP)



CONNECTED SUPPLY CHAIN Lead Plant in developing low cost/resource, Supplier Performance Information Flow that informs the development of future, robust, integrated Enterprise Level Reporting across the JLR Value Stream.



BUSINESS REVIEW - SEQUENCE

Lead Plant engaging beyond our 4 walls to share capability, resource & experience, targeting the growth of our supply partners/stakeholders which in turn mitigates the risk they exert on JLR Operational Performance.



UK NSC RELATIONSHIP

Sustainable Excellent Results depends upon the degree to which an organization's culture is aligned to specific, guiding principles rather than depending solely on tools, programs or initiatives



#### **PLANT MAINTENANCE STRATEGY**

compiled to communicate our ambition & detail our approach to transforming Business Performance through the Lifecycle Management of our Assets in combination with the growth in Capability & Confidence of our Technical Teams.



#### **CULTURAL ENABLEMENT: LEAN LEGO**

Lean Lego is a Peer to Peer Workshop, simulating a working production line where Lean principles are brought to life in a fun & interactive way. Participation spans the enterprise with JLR Team members working alongside our partners.



SAFETY STRATEGY Crear angument to Leaver sinp Lement Transformation: 3x Strategic Layers: 1. Immersion - Evolution of the Front Line Coach / 2. Deployment - Engaging the Population / 3. Governance - Ensuring through Leadership Footprint



#### **DIVERT FREE VEHICLES**

Strategic Approach to embed a culture that drives Quality at Source: 3x Levers: 1. Lean Production System - Bring IPS to Life for every Individual / 2. Leadership - Ensure the Leadership Footprint / 3. Engage Cross-Function to Solve Complex Issues.

### **Cultural Enablement - Leadership Behaviour:**





#### LEADERS STANDARD WORK

Fundamental Element of the Lean Management System: Ensures Execution of Standardised Processes

#### VISUAL CONTROLS

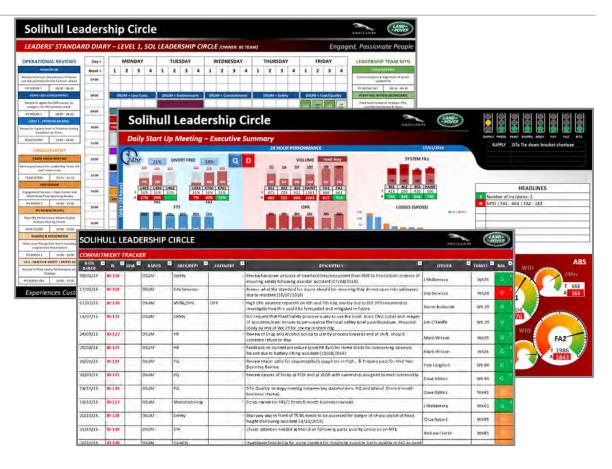
#### Information

Flow that Quickly and Concisely answers the Question: "Are we Winning or Losing?" (DSUM/STD Reports)

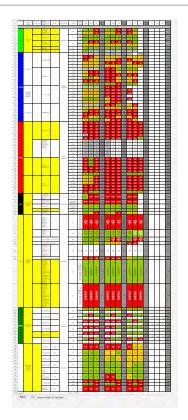
#### DAILY ACCOUNTABILITY

Capture, Track & Review Commitments (BE Tracker) Set the Direction of Improvement Activity to *Close the Gap* 



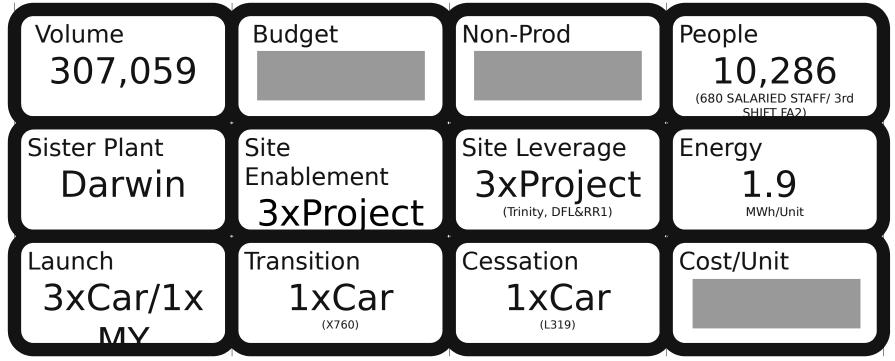


#### Simple Tools Supporting our Systems - Simplifice



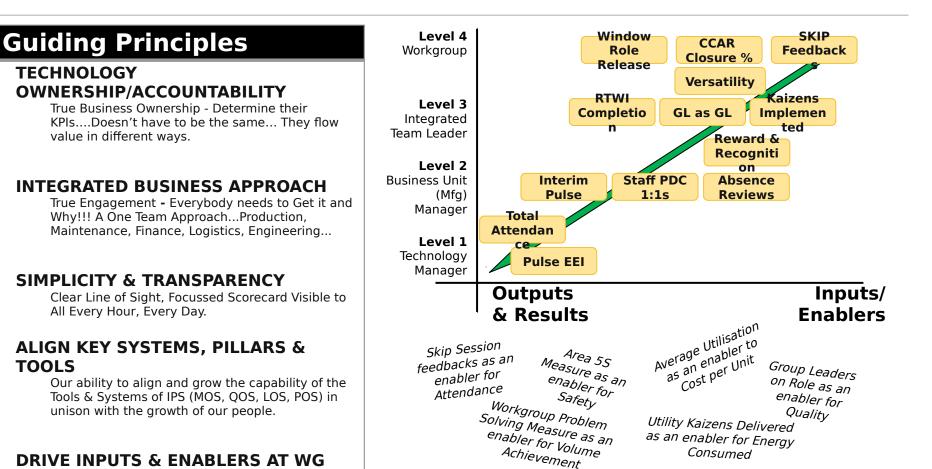


## Solihull Operations - 2016/17 : What it means win! Our Operational Commitments:



(X761/L462/L560) / D7U 17MY NGI

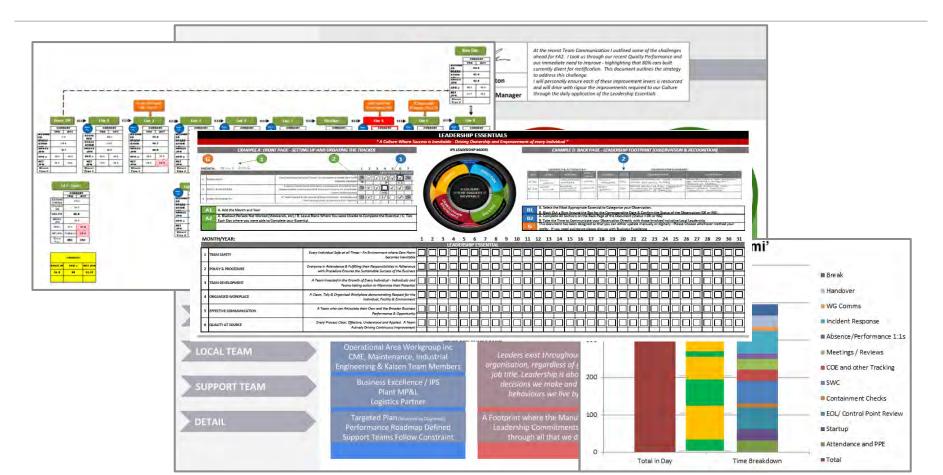
## Strategy Deployment System: Principally Driver



## Respect Every Individual: Engagement &



#### Assure Quality at Source & Flow and Pull Valu





#### THE JLR JOURNEY CONTINUES: NITRA STUDY TOUR BOSTON SCIENTIFIC – ABBOT DIAGNOSTIC ANALOG DEVICES & MYLAN ROTTAPHARM











RANGE ROVEF

RANGE ROVER SPORT

RANGE ROVER LONG WHEEL BASE

