



东旭能制造生产执行监控系统

East Sun Rising Enrich Chemicals

Manufacturing **E**xecution **S**ystem

陈庭佑

TEL : +886 35259565

MAIL : fred@esrec.com.tw

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1. 东旭能集团介绍

2. 东旭能MES介绍

3. MES 优势总结

东旭能集团营运范围

- 营运项目
- 太阳能供应链服务
 - a. 贸易及采购
 - b. 技术顾问
 - c. 材料及机台代理
 - d. 代工服务
- 气体钢瓶运送管理平台
- 太阳能电场监控系统
- 新事业发展(不断电绝缘清洁液)



制造生产执行监控系统

Manufacturing **E**xecution **S**ystem



MES 架构简介

- ◆ 从工单、生产、设备管理、保养、质量管理到出入库、进出货等整合的系统。



产品效益

- ✔ 在製品管理
- ✔ 即時產能
- ✔ 品質管理
- ✔ 訂單進度
- ✔ 人員工時
- ✔ 生產履歷
- ✔ 設備稼動率
- ✔ 資訊透明
- ✔ 物料控管

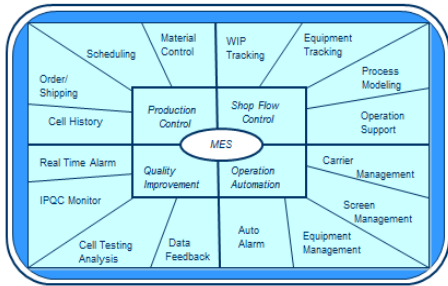


Information Anywhere
 製造管理資訊

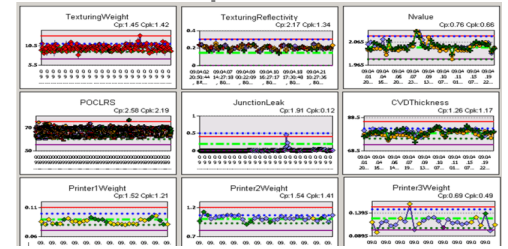


MES成功的关键在SECS

机台程式异动掌控

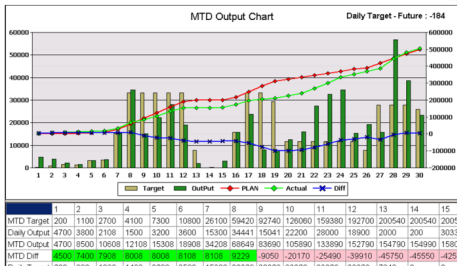


即时品质看板

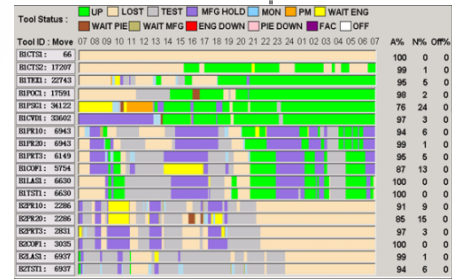


生产指标透明化

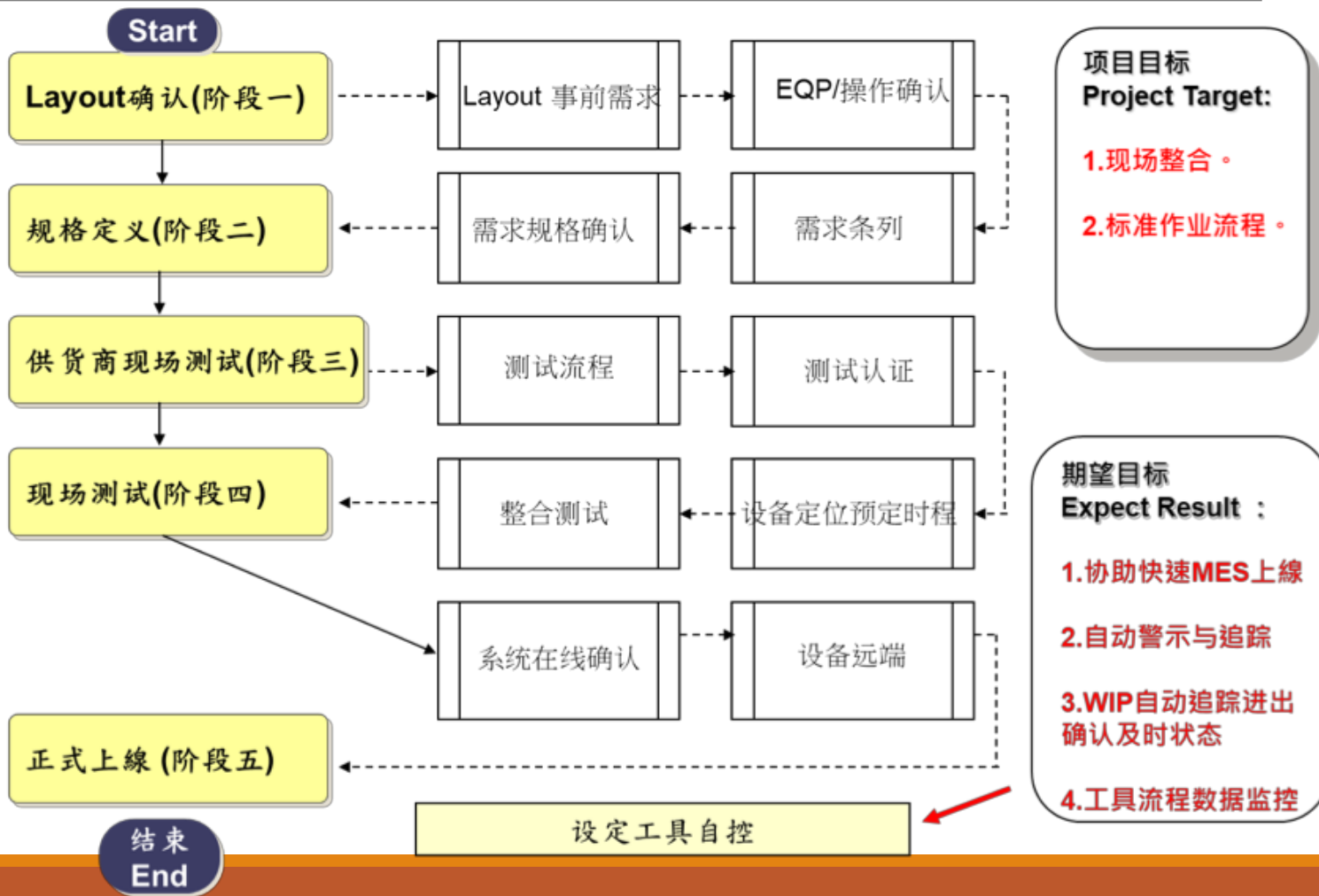
每小时自动化产能管理



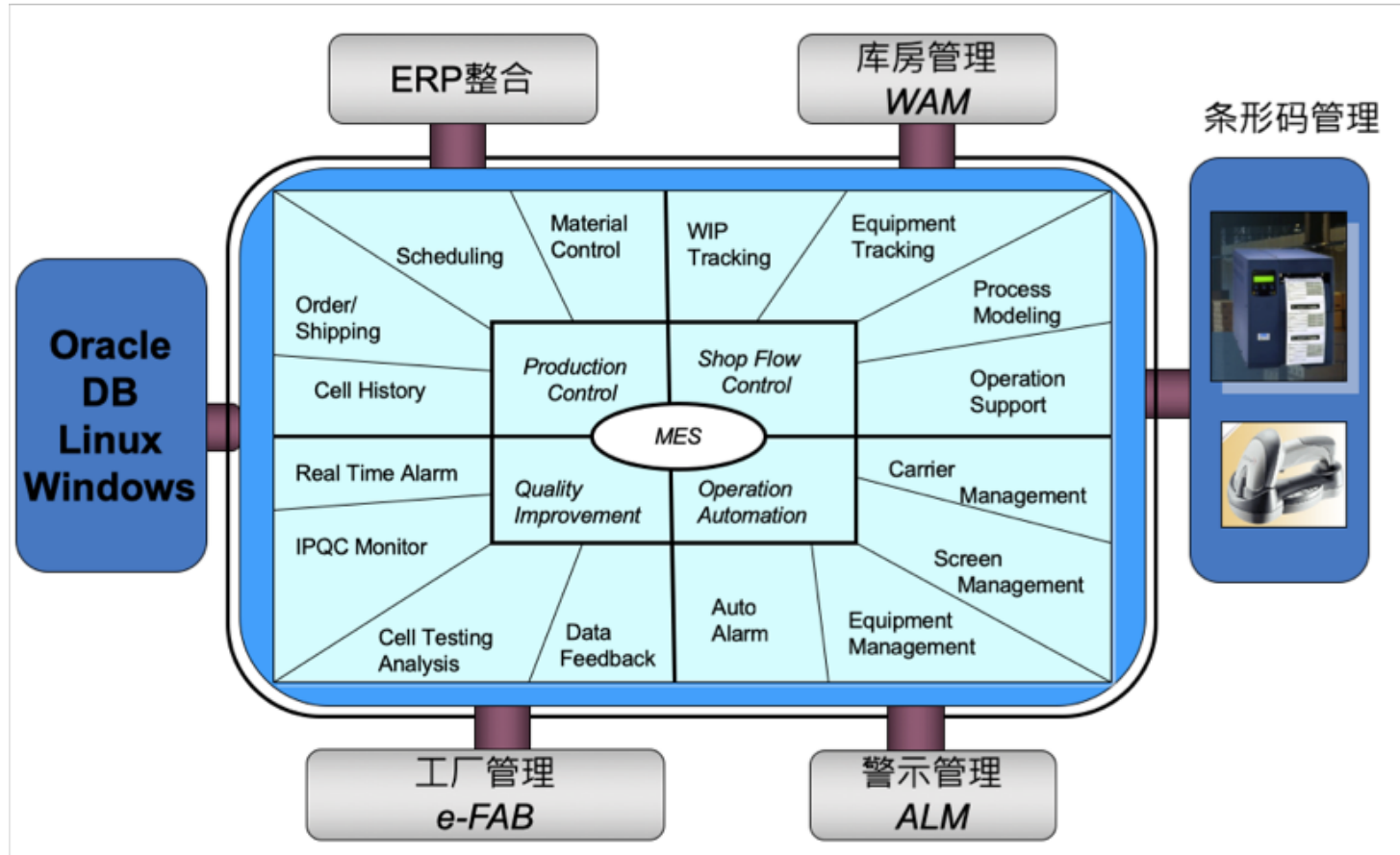
即时机况管控



MES項目目標和導入流程



系統功能模块



系統功能展示-主畫面

Normal Abnormal Carrier View WO Equipment Material QC Report Help

ToolStatus Change Carrier ID Lot ID Tool ID V1.2.

ToolStatusChange_00

Tool Status :

- UP
- TEST
- PM
- MON
- WAIT ENG
- WAIT PIE
- WAIT MFG
- LOST
- ENG DOWN
- PIE DOWN
- MFG HOLD
- FAC
- OFF

Sorter C Laser B C COF Printer3 Printer2 Printer1 UnLoader

Loader C Texturing C Doper Diff C B C PSG M5 Loader


Loader C Texturing C Doper Diff C B C PSG M5 Loader

Sorter C Laser B C COF Printer3 Printer2 Printer1 Loader

Wet-Bench

功能：可依据客户需求自行设定Layout

系统展示-自动产生Lot ID及标签

Lot ID	AE850601.00 	Solar MES
WO ID	EP-850001	
Material ID	W125S200	
Stage	Texturing	Carrier Information
Qty	100	Comment :
Lm Time	2008/5/7	ENG Testing Lot
Carrier ID	1TEX001	

于MES过账时会产生条形码，并贴于载具上

系统功能展示-在线作业员使用接口

Normal Abnormal Carrier View WO Equipment Material QC Report Help

KSR Carrier ID Lot ID Tool ID

KSR_01

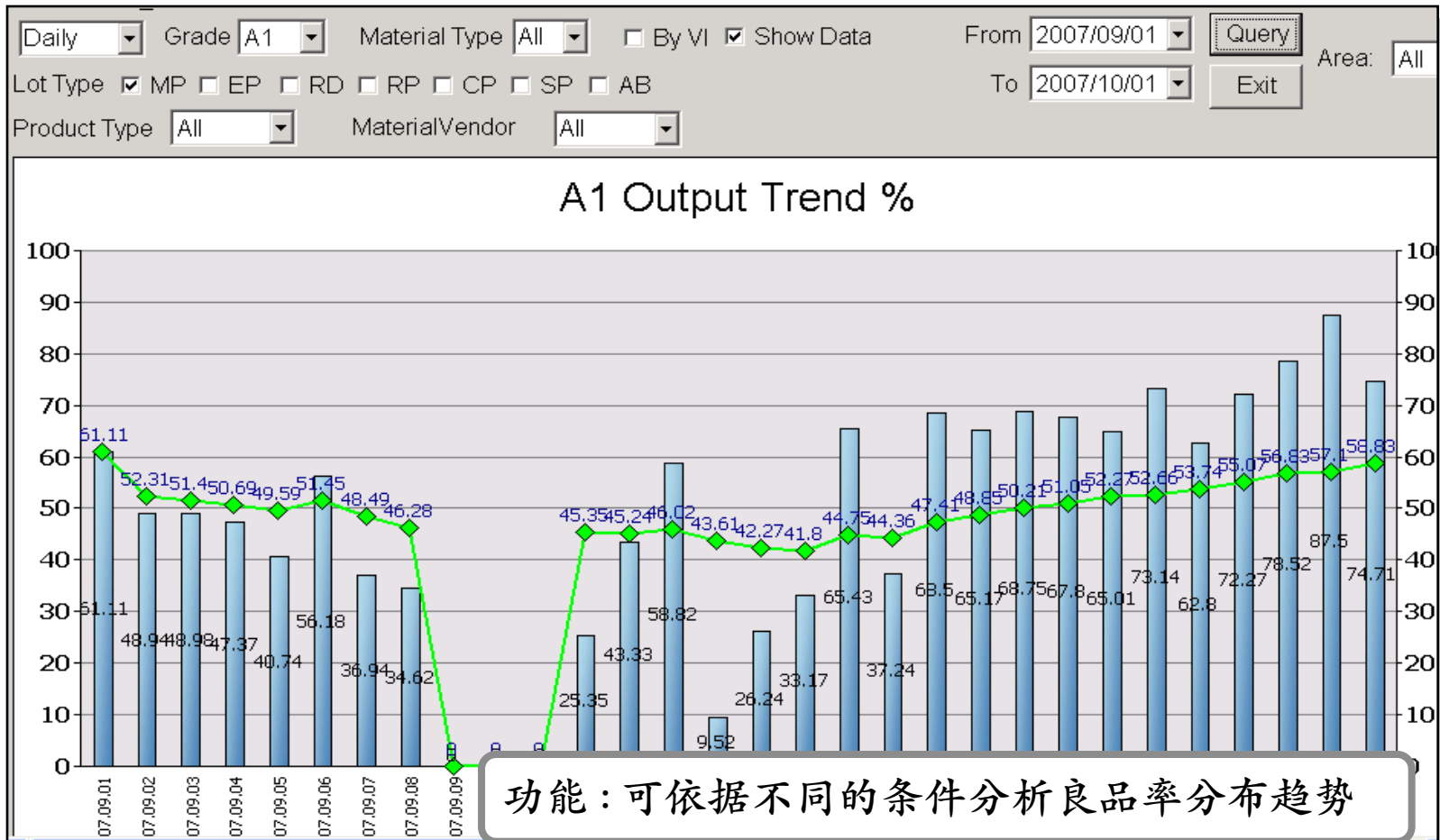
Wafer Start Wafer Out Scrap UnScrap Term UnTerm Area:

Lot ID Part ID Route ID Owner Comment

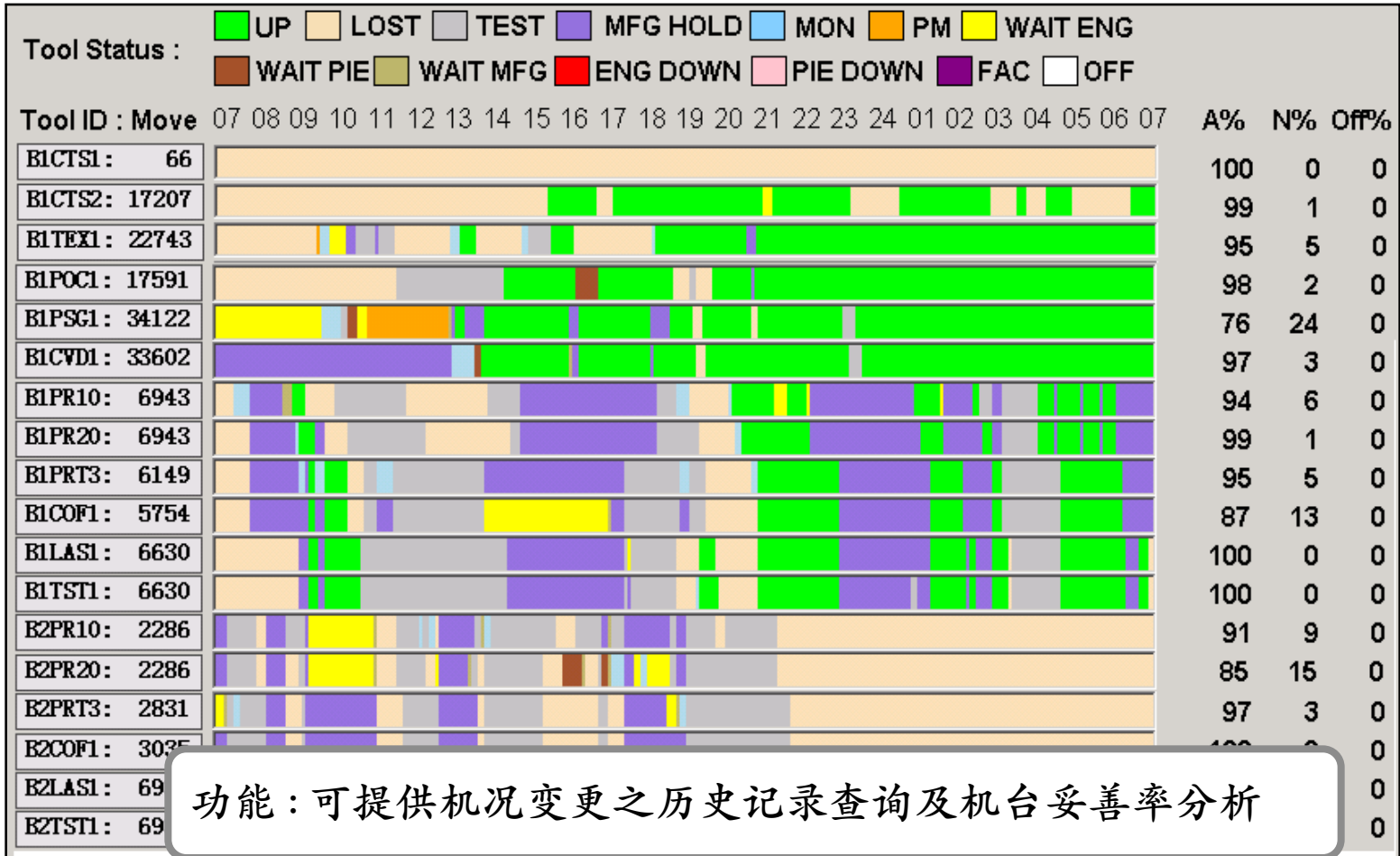
Stage	BOH	WIP	INPR	Wait	Q Time	5S Hold	6S Hold	6M Hold	Total Hold	Avg Hold	5S	6S	6M
WaferLoader	1000	<u>1000</u>	<u>1000</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>1000</u>	<u>0</u>	
Texturing	130	<u>130</u>	<u>0</u>	<u>130</u>	246	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>130</u>	<u>0</u>	
AOC	4110	<u>4135</u>	<u>0</u>	<u>4000</u>	56	<u>135</u>	<u>0</u>	<u>0</u>	<u>135</u>	111	<u>4135</u>	<u>0</u>	
Doper	270	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	
Diffusion	0	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	
POCL	12926	<u>5734</u>	<u>2867</u>	<u>2467</u>	7	<u>400</u>	<u>0</u>	<u>0</u>	<u>400</u>	145	<u>5734</u>	<u>0</u>	
PSG	580	<u>3827</u>	<u>400</u>	<u>3427</u>	7	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>3827</u>	<u>0</u>	
PECVD	0	<u>51</u>	<u>0</u>	<u>51</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>51</u>	<u>0</u>	
Printer1	43	<u>3816</u>	<u>1051</u>	<u>2765</u>	8	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>3816</u>	<u>0</u>	
Printer2	0	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	
Printer3	0	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	
CoFiring	0	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	
Laser	27	<u>1600</u>	<u>1600</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>1600</u>	<u>0</u>	
Sorter	0	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>	

功能：实时掌握工厂各产品别现有库存及各站别分布状况

系统功能展示-产品良品率分布趋势



系統功能展示-機台管理



功能：可提供機況變更之歷史記錄查詢及機台妥善率分析

系统功能展示-异常管理

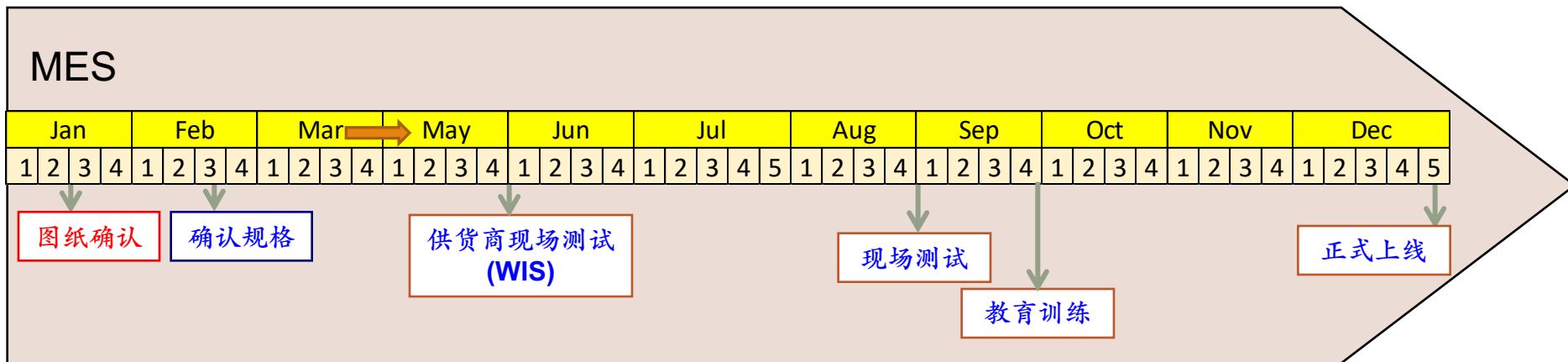
Total Event Qty

Start Qty WaitPIE Qty WaitENG Qty WaitMFG Qty

V	Event ID	Event Type	Status	Description
<input type="checkbox"/>	VIDF0010903891	VIDefect	Alert	VI Defect Rate:13.91% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903839	VIDefect	Alert	VI Defect Rate:13.19% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903835	VIDefect	WAIT PIE	VI Defect Rate:26.46% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903834	VIDefect	WAIT ENG	VI Defect Rate:10.42% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903801	VIDefect	WAIT MFG	VI Defect Rate:25% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903800	VIDefect	Alert	VI Defect Rate:15% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903799	VIDefect	Alert	VI Defect Rate:15.28% Out of SPEC : 0~10%
<input type="checkbox"/>	VIDF0010903798	VIDefect	WAIT MFG	VI Defect Rate:11.17% Out of SPEC : 0~10%
<input type="checkbox"/>	B1POC10903906	POCLRS	Alert	LANE3 Value:0 out of SPEC(60~70), Lot Id:A0E953102.02
<input type="checkbox"/>	B1POC10903905	POCLRS	Alert	LANE3 Value:0 out of SPEC(60~70), Lot Id:A0E953102.02
<input type="checkbox"/>	B1POC10903904	POCLRS	WAIT ENG	LANE3 Value:0 out of SPEC(60~70), Lot Id:BEE960101.00
<input type="checkbox"/>	B1POC10903830	POCLRS	Alert	LANE3 Value:66.092 out of SPEC(45~65), Lot Id:BEE952114.01
<input type="checkbox"/>	B1POC10903829	POCLRS	Alert	LANE3 Value:66.153 out of SPEC(45~65), Lot Id:BEE952114.01
<input type="checkbox"/>	B1POC10903828	POCLRS	Alert	LANE3 Value:66.153 out of SPEC(45~65), Lot Id:BEE952114.01
<input type="checkbox"/>	B1POC10903827	POCLRS	Alert	LANE3 Value:66.153 out of SPEC(45~65), Lot Id:BEE952114.01
<input type="checkbox"/>	B1POC10903826	POCLRS	Alert	LANE3 Value:66.153 out of SPEC(45~65), Lot Id:BEE952114.01

**功能:当质量异常时系统会自动发出Mail或信息
并提供质量常之分析追踪**

项目预定时程



东旭能MES优势总结

- 已有成功案例作支撑没有失败的风险
- 专业的SECS团队使数据不漏接
- 具有强大的统计工艺和制造管理功能
- 可提供客制化报表



Q & A
Thank You !!!