

ABSTRACT SUBMISSION TO:

ISMI Symposium Austin 2006

1. Title:

“The value of data visualization and well structured systems”

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3. Abstract:

In Semiconductor Fabs data volume is usually immense. To find the right information from the correct source and correct context, is in most cases complicated. The mode of generation of many reports is often static, generated in the night or days before and in the instant of discussion too outdated to give valid information. In addition to that the data are from various sources and most of the time of discussion is spent to figure out what data are the most applicable ones and so the focus on the real problem often gets lost.

In the field of capacity planning and tool modeling the importance of accurate data is compulsive, and a short feed back loop to actual performance data is required.

Different parameter as WIP, CT and activities can be visualized in different ways, but only the actual view on right context will supply the needed information for to find the right answer.

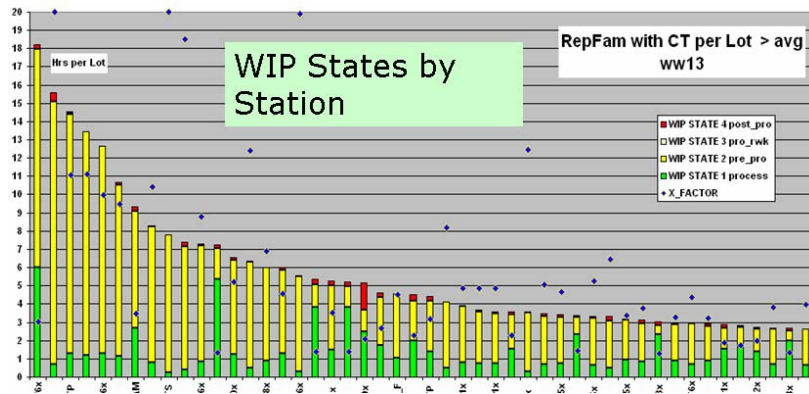
The presentation will provide information on how data should be structured to exploit the data stream for valuable information, and how interactive WEB based systems have replaced “static” reports by supply of actual, self- explaining data.

So the presentation will show the “reporting” tools of IE @ AMD Dresden. Solutions will be explained by real examples. We will also give an follow up from the progress of Advanced Throughput Control (ATC), first presented last year on ISMI.

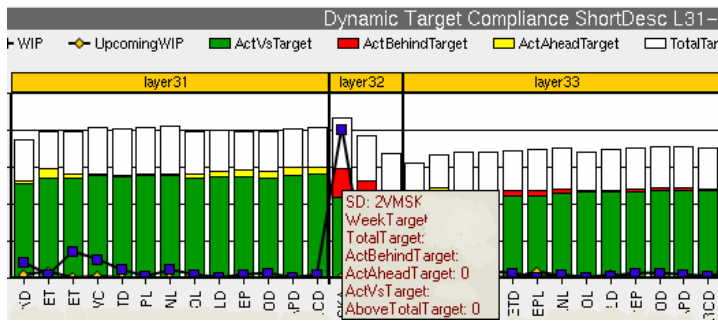
Overview:

- IE Team Functions and Responsibilities
- Source Requirements and Data Value
 - Structured, detail Tool and entity data from ONE source (example tool data) including feed back loop
 - “Filter” for statistical relevance (example cycle time analyses)
 - Plausibility and verification algorithm (Example Emulation)
- Data Value Stream and Trigger Points with WEB based Interactive Function
 - Short, medium and long term analyses (Example Capacity Plan for the next (years/quarters/weeks)
 - Rough and detail data (Example Equipment Performance)
 - View on the same data from different directions (Example WIP)
 - Definition of Key indicators by event and object (Example Dynamic Target)
 - WEB based interactive function
 - Structured data sources, definitions and glossary (Example PeX and DLIS Glossary)
- Achievements 2005 (Examples)

- View on the same data from different directions (Example WIP)



- WEB based interactive function



Tool info for STP91

entity	DispatchStation	ent_status_1	old_oper	old_route	spec_id	act shift
STP91	TRK91	REP-CON				

E10 Chart previous shift start to current shift end

