



# **E**PROMI

Enterprise **PRO**duction **M**anagement **I**ntelligence

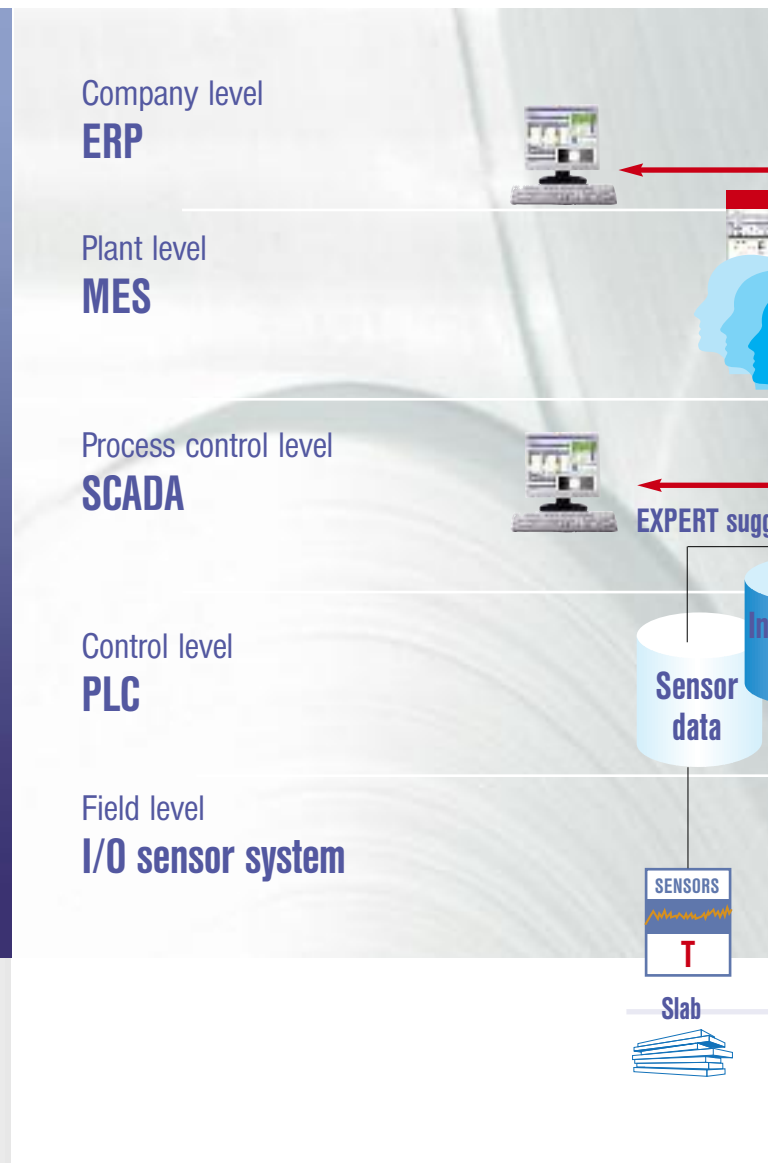
**Decision Power**  
Software Architecture

# Using information – for the best decisions

**Yield optimization with intelligent software** – The EPROMI architecture utilizes all of the relevant production data at each stage of the steel making process – from slab to finishing in a synchronized and integrated form. The EPROMI database connects to any database containing relevant data about steel quality – not just surface defect and defect image data, but all process variables are synchronized with coil footage and watched from process to process. The overall quality is tracked and process improvements can be achieved by having all

relevant data “matched” by time and coil location. Standardized interfaces are employed to include customer order, resource and planning data, from MES and ERP systems.

Within the EPROMI architecture resides one or more EXPERT<sup>51</sup> application software modules that analyze and weigh the information contained in the EPROMI quality database according to user specific guidelines or rules and generate knowledge-based suggestions for the decision-makers.

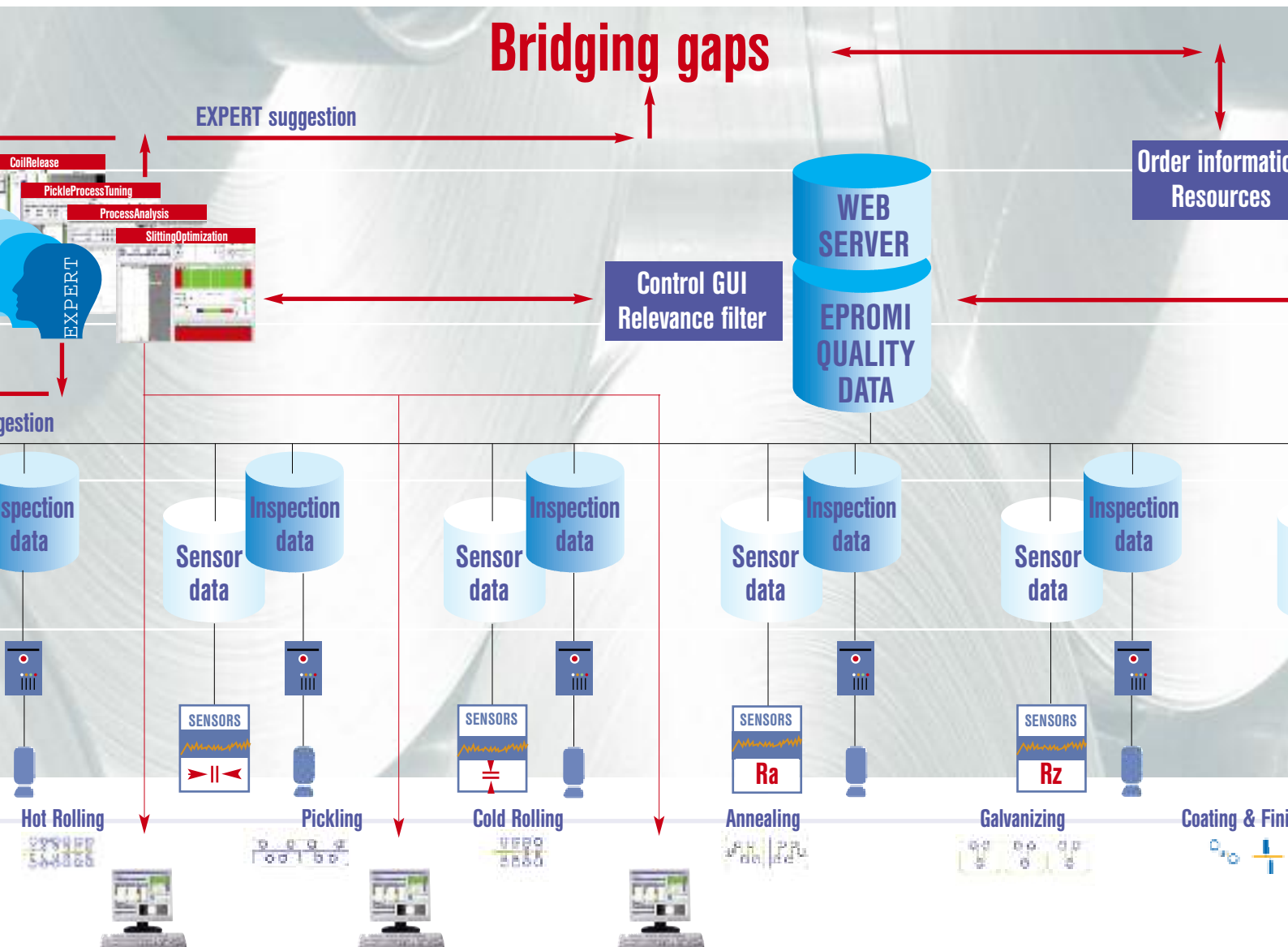


# ...by process, by mill, by region, globally networked

**Sound decisions** – The Enterprise PROduction Management Intelligence architecture provides objective and optimized recommendations based on all the relevant information generated during the processing of steel, by implementing one or more of the simple-to-use EXPERT<sup>5i</sup> modules. It strongly supports managers at all levels of a company for optimizing yield and production.

**The implementation** of the EPROMI architecture analyzes each processing step, capable of handling huge amounts of data. The knowledge gained can also be passed on to process control, manufacturing execution and ERP systems – making it the perfect solution to improve and optimize yield and production.

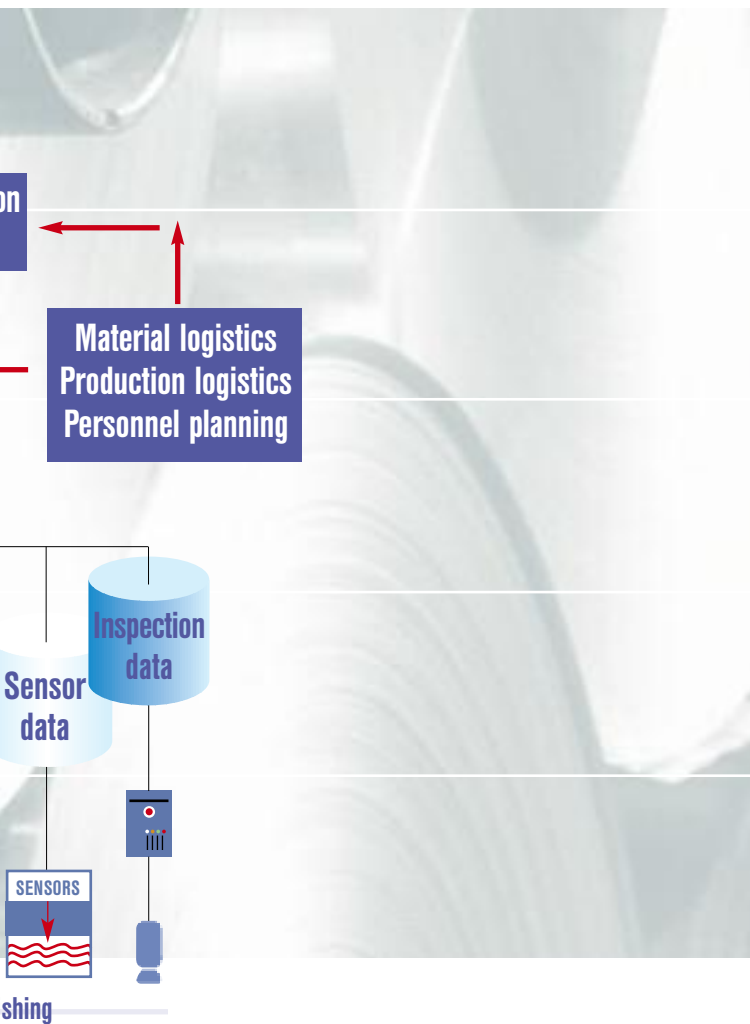
Steel manufacturers have already decided in favor of this turnkey architecture and implemented it with success.



# From data to knowledge to decisions

**Higher quality, increased productivity, improved processes** – The Enterprise PROduction Management Intelligence architecture with its EXPERT<sup>5i</sup> modules is the tool to achieve these goals. A solution taking thousands of details and data points and reducing them to answers to any coil quality concerns, quality then becomes planned, coil processing and production become efficient and huge savings are realized.

**Unique** – The EPROMI architecture is unique due to its comprehensive approach to process variables, coil surface quality, and MES and ERP integration. The industry standard ISRA VISION PARSYTEC surface inspection and defect classification, combined with EPROMI which delivers an unparalleled quality management framework encompassing all critical production data – from temperature sensor data up to resource and order planning, is an incredibly powerful approach to improving profitability. Aren't you ready to make the best decisions?

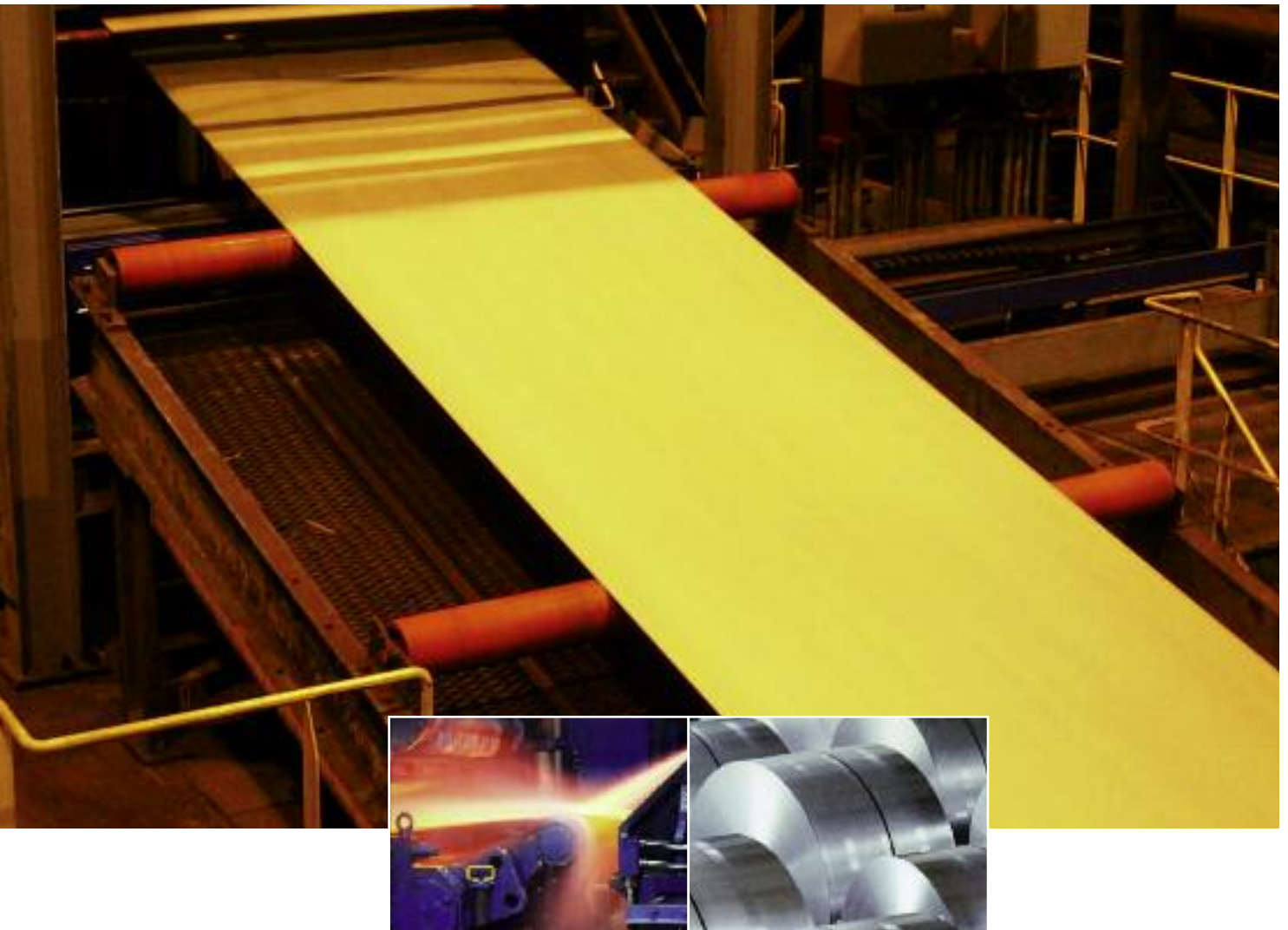


## EPROMI architecture

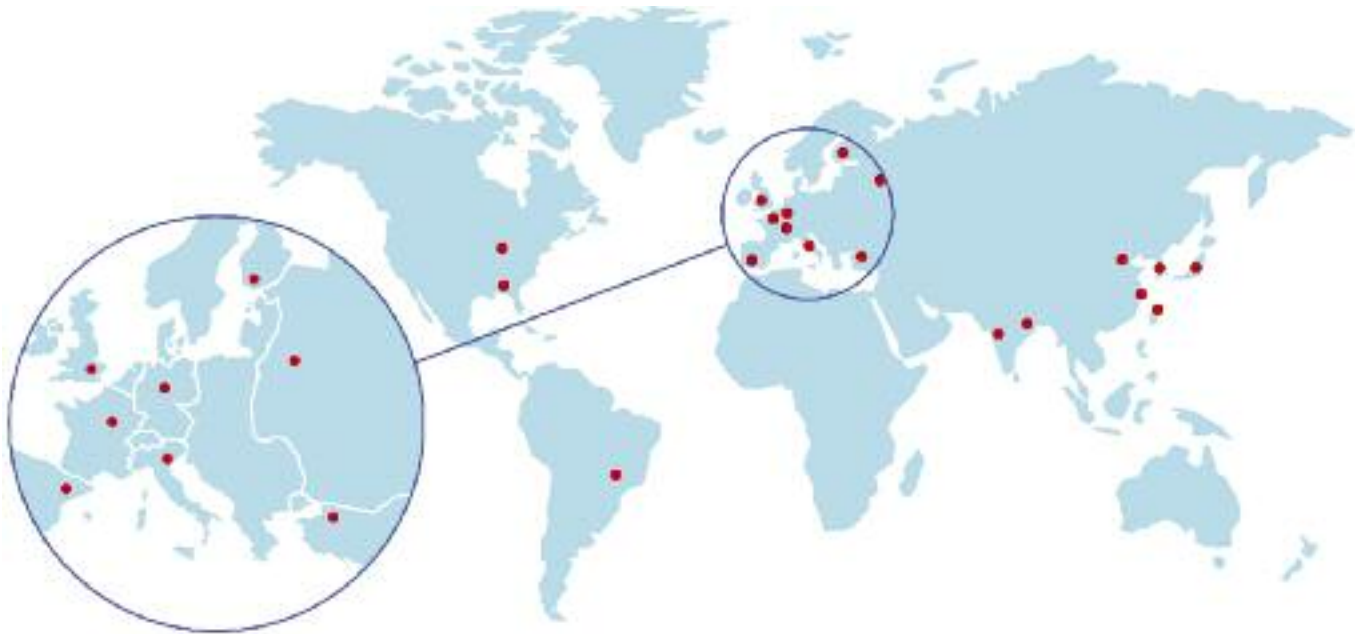
# An eye on steel quality

**Steel is an** universal material common in high quality products and technology. Increased quality demands require fine tuned processes to produce finished coils of top quality steel. Quality variables such as roughness, thickness and surface quality must be known to make decisions about the processing and disposition of coils at each stage of the steel making process. The better the quality of the coil, the greater the value of the coil. The steel producer that makes the highest quality coils is the most profitable.

**Intelligent architecture** – Automatic inspection systems can monitor and document surface defects through the individual coil processing steps. Unfortunately, this alone is not sufficient to optimize processes and production. Making fast, objective, economic decisions for every stage in the coil making process is necessary to ensure yield maximization. This is how Enterprise PROduction Management Intelligence software, or simply EPROMI, provides help.



# More than just surface inspection



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The More You See...

