

Cooperation in innovation of manufacturing systems for Medium Size Technology Companies

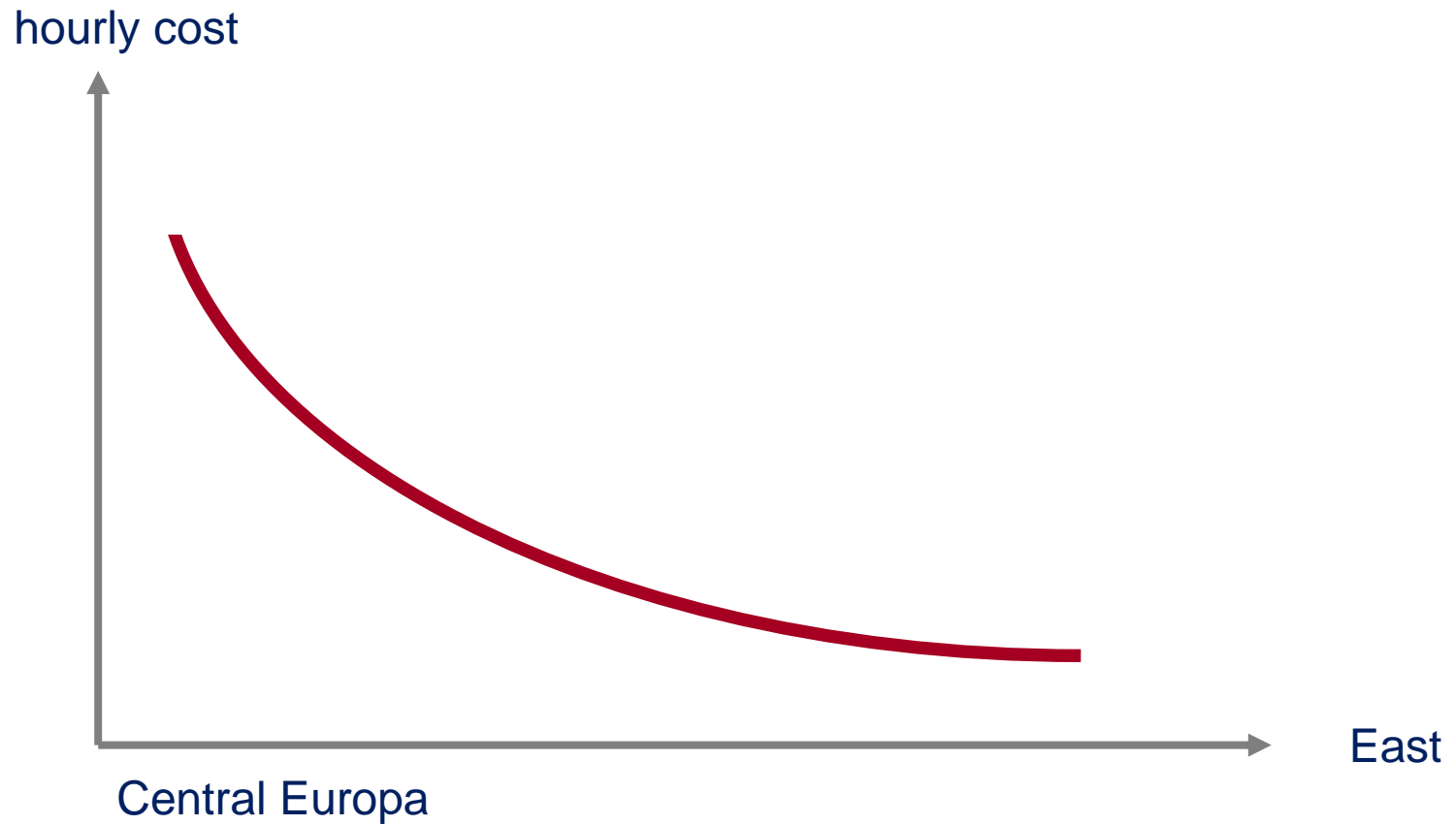


The European Association of the Machine Tool Industries
at the MANUFUTURE 2011 Conference 24-25 October

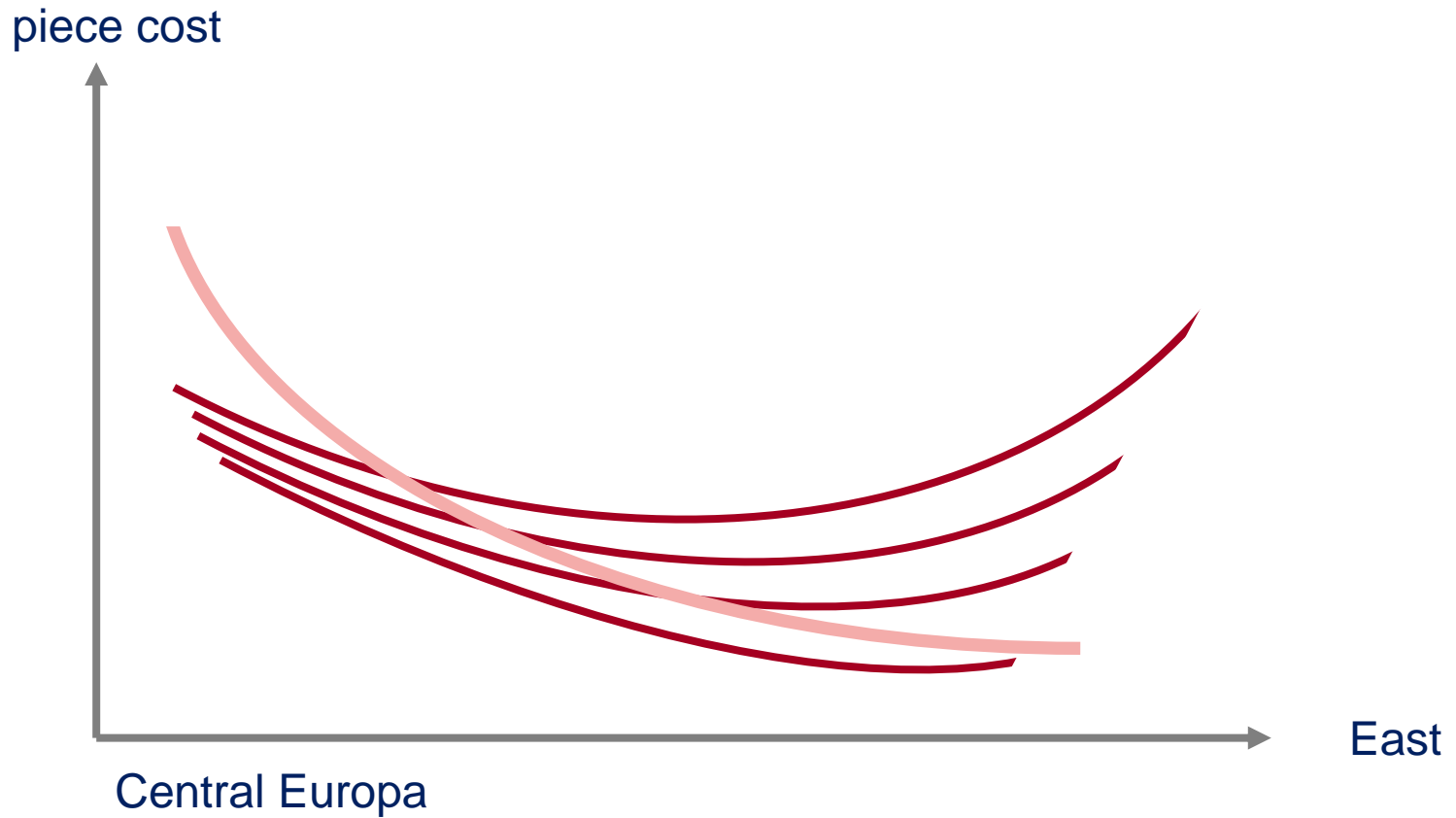


- **What is an SME: EU definition**
- **SME's in the European framework**
- **Competitiveness goes along with innovation**
- **Cooperation for innovation is a critical success factor**
- **Innovation and cooperation in SME's is entrepreneurial driven**

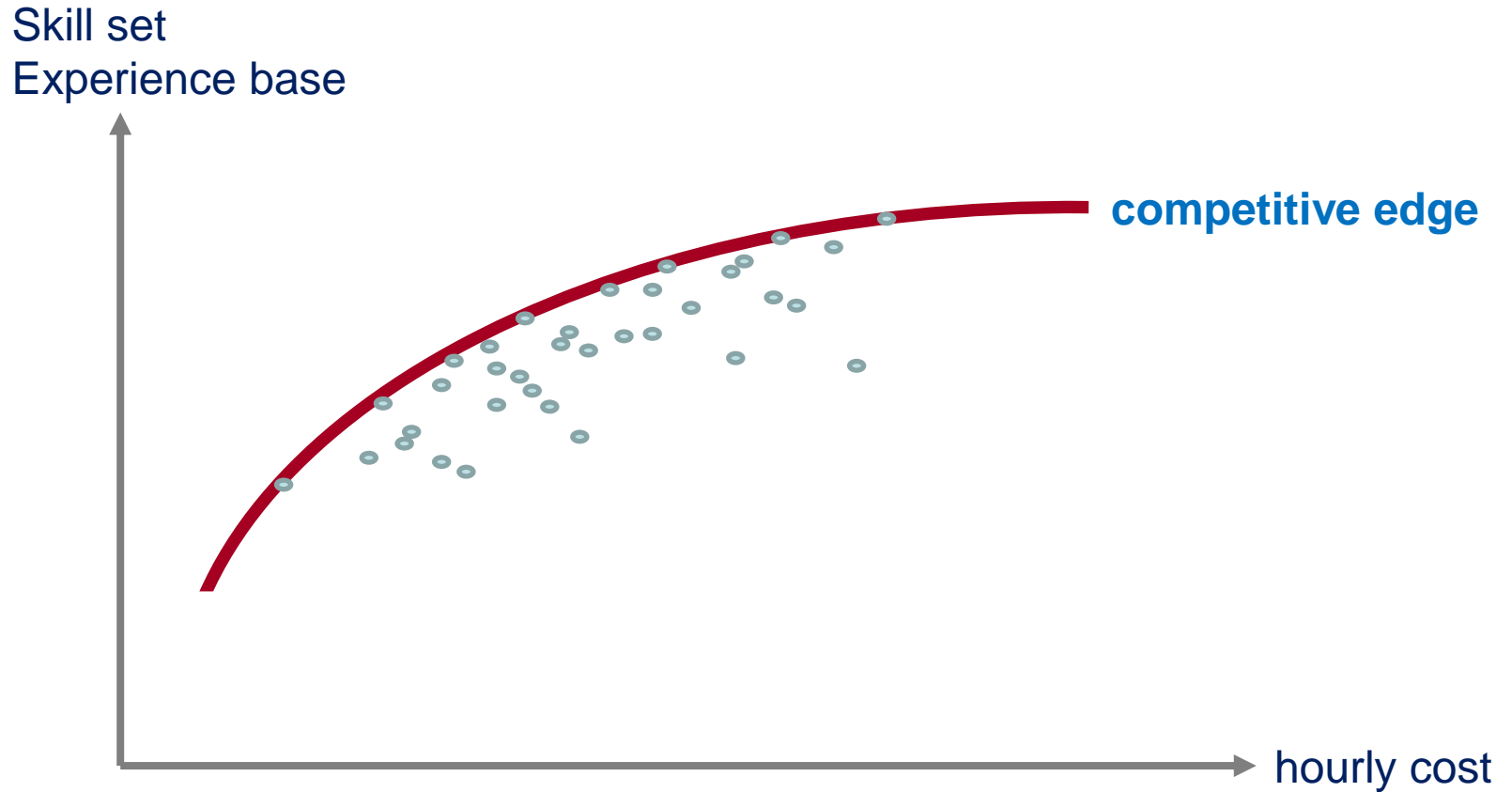
Manufacturing in Europe: we have the following fact ...



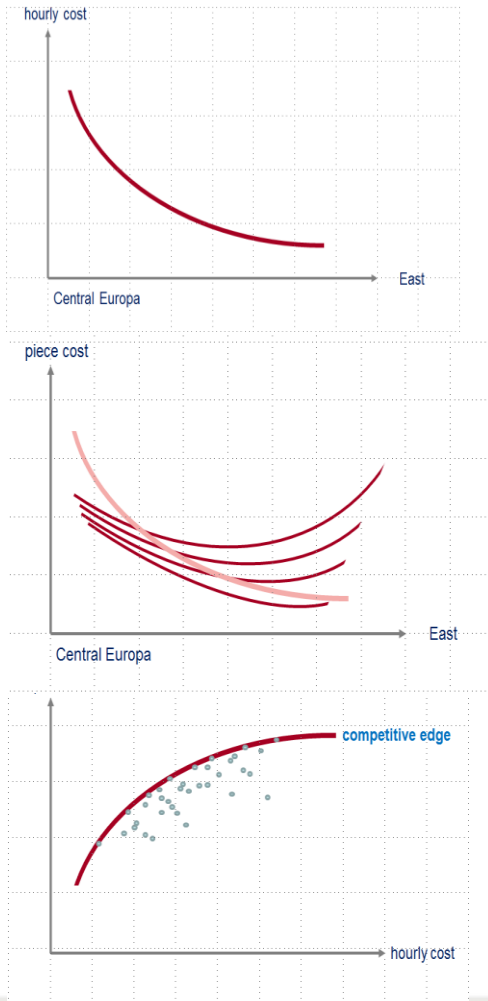
Manufacturing in Europe: ... and we have the following experience



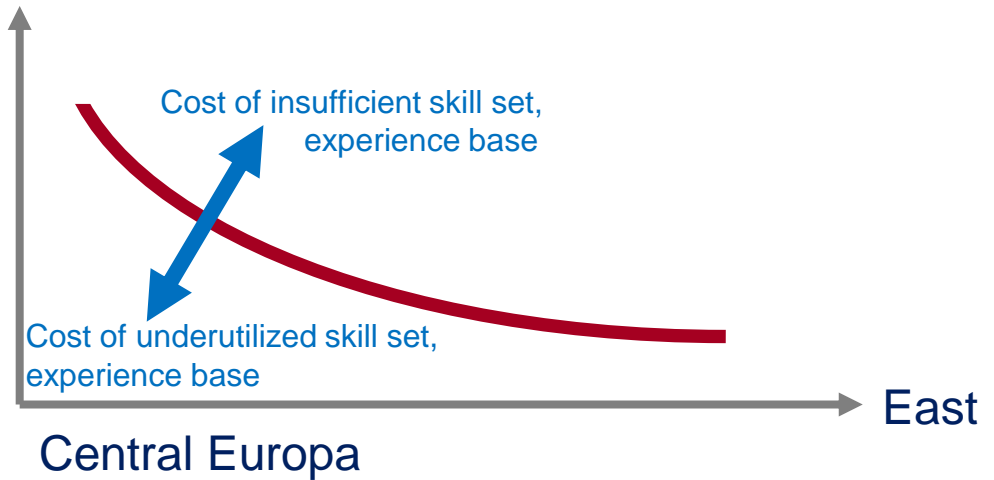
Manufacturing in Europe: ... and from basic economics we know



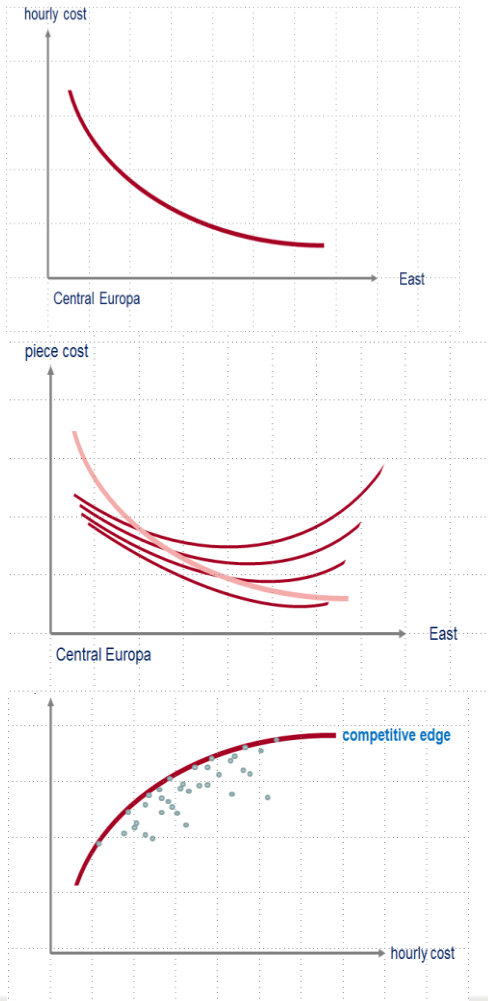
Manufacturing in Europe: ... and the conclusion: there is a right place for a job, at least from a manufacturing cost point of view



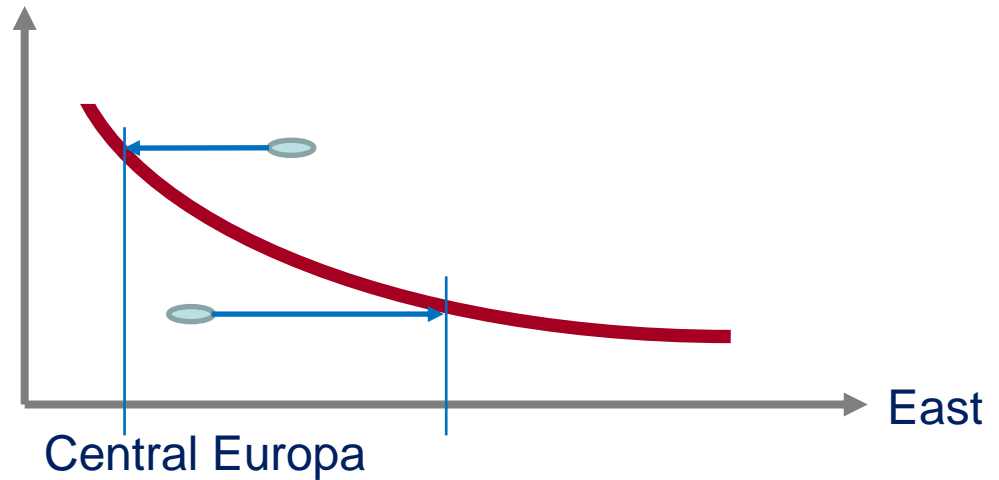
skill set, experience base, (hourly cost)



Manufacturing in Europe: ... and the conclusion: there is a right place for a job, at least from a manufacturing cost point of view



hourly cost, skill set,
experience base



Manufacturing in Europe: ... what I consider a skill set, or experience base

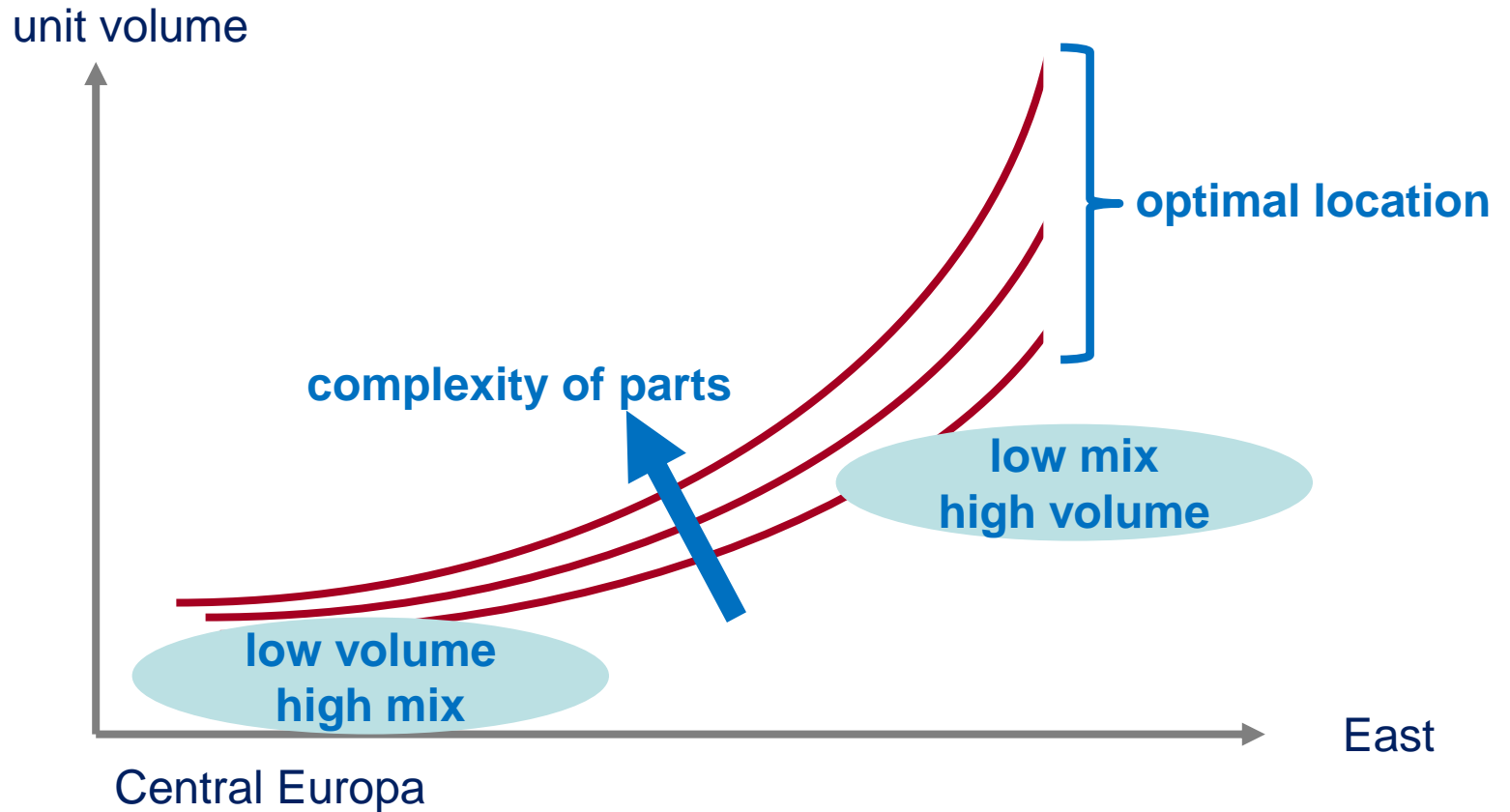
It is not producing a quality part on a vertical CNC Machining center, it is:

- The ability to work with English or German drawings and work instruction on the shop floor and produce first pass yield.
- The ability to work in a high mix low volume environment, to source special tools and gages around the world effectively and efficiently, to maintain and constantly adapt a quality inspection system for such an environment.
- The direct access to productivity improvement, from the shop floor to suppliers of consumables (cutting tools, grinding wheels, coolants, ...), factory equipment, ... and permanently implement relevant improvements.

Manufacturing in Europe: ... what I consider a skill set, or experience base

- Intricate understanding of measuring loops, capability of building relevant (automated data collection) loops and utilizing the output for productivity and process improvement in a constantly changing environment. Interfacing with relevant know-how sources globally, directly from the shop floor
- ... reliability of all manufacturing processes (including such issues as the guaranteed availability of electric power in a defined quality 24 hours)
- ... reliability of all support processes (preventive maintenance, failure response and up time, ...)

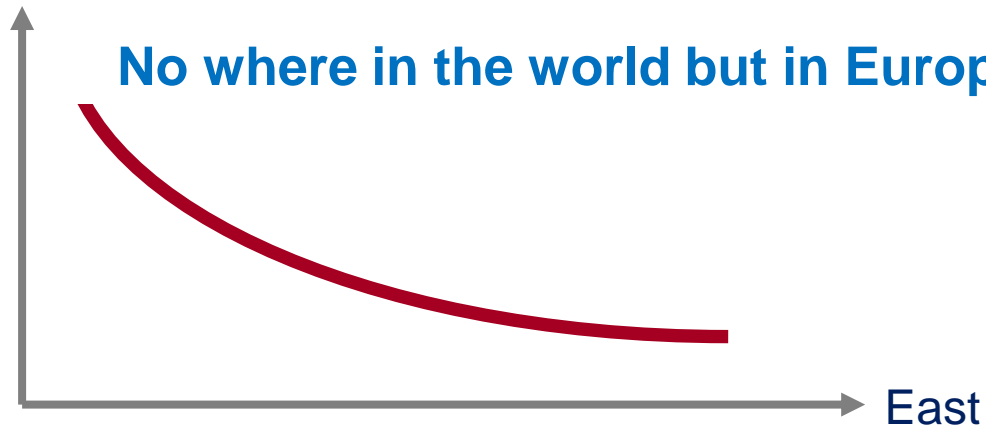
Manufacturing in Europe: ... how do I see the difference



Manufacturing in Europe: summary and conclusion

Europe is a great place for manufacturing

hourly cost, skill set,
experience base



← 2000 km →

Thank you

Questions?



Dr. Hans-Martin Schneeberger,
President and CEO Schneeberger Holding Ag, CECIMO Delegate

CECIMO – The European Association of the Machine Tool Industries

Avenue Louise 66 | 1050 Brussels | Belgium

Tel.: 00 32 (0)2 502 70 90

Email: information@cecimo.eu

Website: www.cecimo.eu

