Digitalisering en MBD in Sheetmetal.

Sheetmetal & MBD Solutions Event 26-11-2025

Reference:

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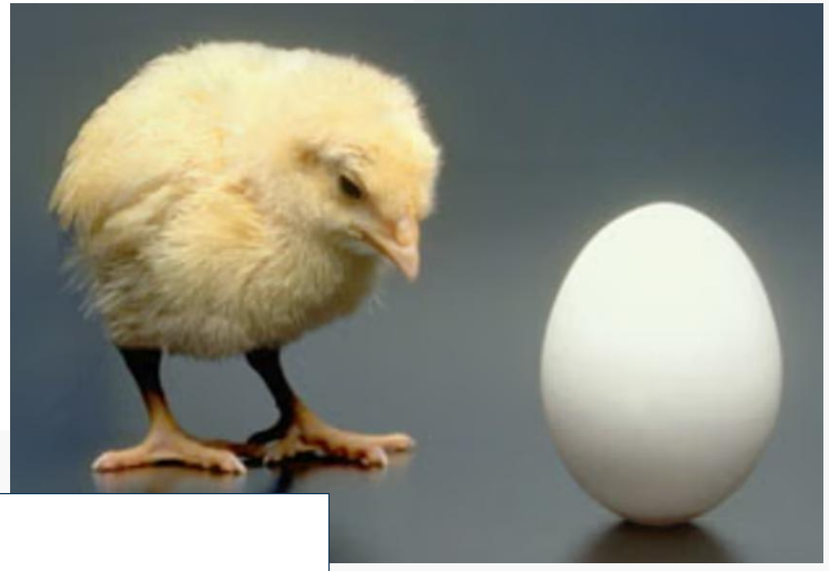
Distribution:

Personal Introduction Johan Veldhuis

- Mechanical Engineering background (University of Twente).
- Many years experience in the High-Tech, Low Volume, High Mix development and manufacturing industry.
- Since august 2024 working for Prodrive as DfX and Value Engineering Specialist

Motivation of today's parallel MBD and Sheetmetal event.

- Previous MBD events were dominitated by machining and measuring.
- 2 years ago I studied automation in the sheetmetal industry.
- Sheetmetal has 2 main differences compared to machining:
  - material is deformed (bending, deepdrawing etc.)
  - parts being connected by welding
- Availability of skilled benders and welders worldwide is an increasing issue.
- Automating manufacturing low volume high mix products requires drastic reducing programming and workpreparation time.
- Defining welds "on 2D drawing":
  - requires many detailed views.
  - in many cases is poor; engineers leave how to weld to skilled welders.
- Adding PMI in 3D forces engineers to clearly and unambiguous define welds.
- For robotic welding advanced "PMI" CAM software is available.
- Online sheetmetal portals seem more advanced then most sheetmetal companies I know.
- Measuring welded assemblies can be significant improved by using PMI and advanced measuring software.



Chicken and egg problem:

- Whithout PMI during product development, no MBD downstream applications.

- Withoud MBD downstream applications, no PMI during product development

On today's menu.

- Status MBD opportunities, developments and adaptation in the Benelux.
- Support manufacturing companies to step into MBD (MBE Experience Centre initiative).
- Sheetmetal technologies in general (bending, welding, glueing, deburring, offline programming etc.).
  - **Enjoy your presence on both this combined MBD and Sheetmetal Event!**

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