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Delivering Cost-effective Unconventional Solutions for the Global Bio/Pharmaceutical Industry

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Where are we today?

- For the past decades drug manufacturing sites have been designed in the same way.
- Innovation was only aimed at increasing production capacity and process automation in general and partially reducing manual operations.
- By replicating the same design/layout risks of failure have been minimized and profit maximized.





New trends

- Current scientific developments are leading toward production of progressively smaller batches of drugs for customization of therapies (Personalized Medicine). [are changing the way new drugs will be designed and manufactured]
- New solutions are needed, different from those we are used to work with today.
- Closer collaboration between drug manufacturers and equipment manufacturers is needed.





Process equipment in the field

What is advertised in the media seldom represents our daily reality. As a consequence, vast majority of (our) process equipment is underutilized.

Most common inefficiencies:

- Processes not optimized for the specific loads
- Process controllers not fully understood
- Various software functions unused
- General lack of training and understanding of processes





Market drivers:

- Increasing pressure on drug prices
- Increasing pressure by (international) regulators
- Increasing competition from emerging countries
- Increasing complexity of primary packaging and drug delivery systems





Solution?

Drastically increase efficiency!





What is required?

- Thorough understanding of processes & equipment
- Develop internal know-how
- Thinking outside of box
- Open collaboration/exchange of experiences with equipment manufacturers
- Availability to invest in innovative & unconventional manufacturing solutions
- Challenge equipment suppliers for developing more cost-effective solutions

