# The Intelligent Dieline Value Adding Opportunities for Folding Carton

Jan De Roeck – Director Solutions Management

October 14<sup>th</sup>, 2009 41<sup>st</sup> International Circle Conference

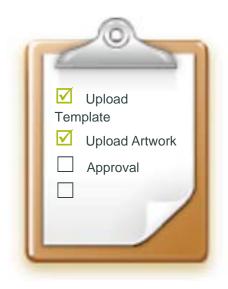




1. Challenging times for Folding Carton Converters

2. Meet Packaging Requirements ... and more!

3. Conclusion





# Challenging Times for Folding Carton Converters







Brand owners and retailers – The industry drivers

What Brand Owners want ...

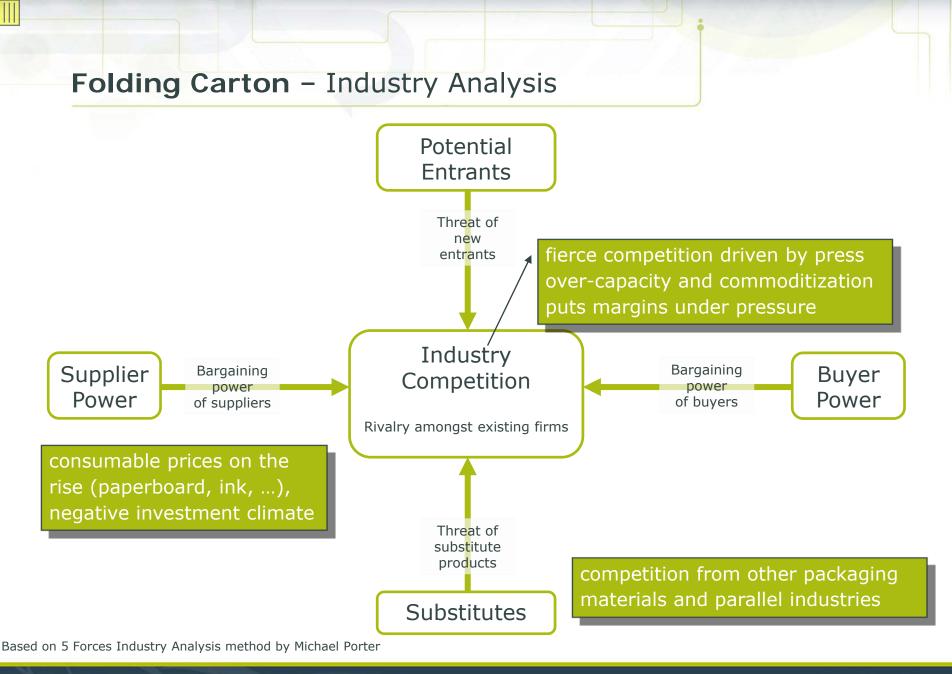
"Faster Better Cheaper Greener"



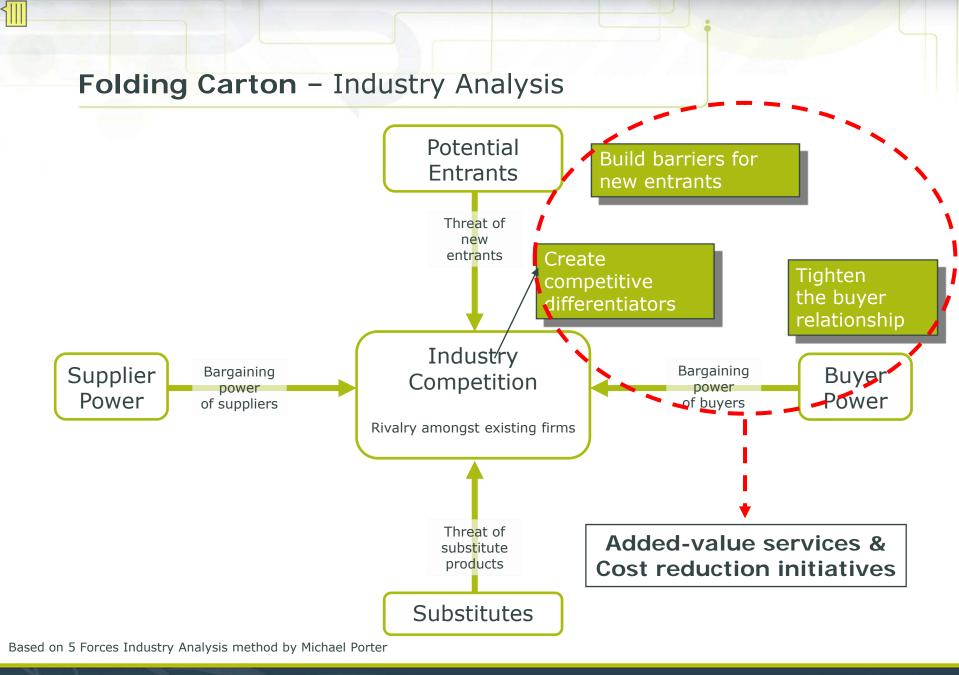
"We will listen to suppliers who provide us a company wide, global solution that is applicable to all products"

Quotes from Mr. Paul France, P&G, Digital Label Summit, March 2009











## Meet Packaging Requirements ... and more

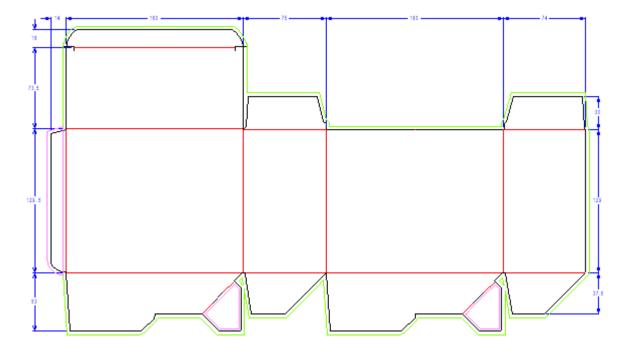
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Meet Packaging Requirements ... and more

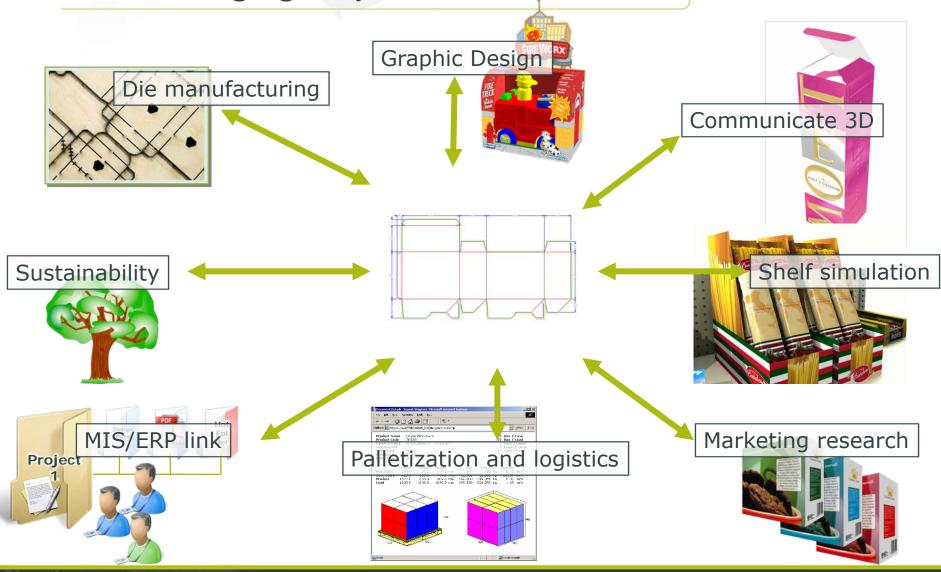
Back to your core competencies – the structural design file

- Don't look too far for opportunities to create unique add value
- You own critical assets in the packaging value chain





#### Meet Packaging Requirements ... and more





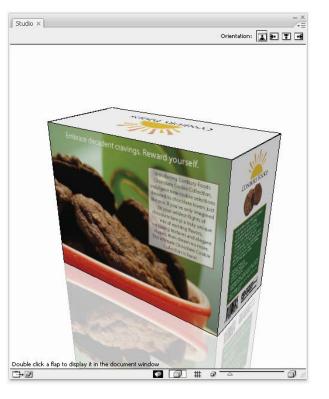
#### 3D Design for Folding Carton - inside Adobe Illustrator

From this

to this

in 3 minutes







3D preview in Adobe Illustrator 3D PDF file



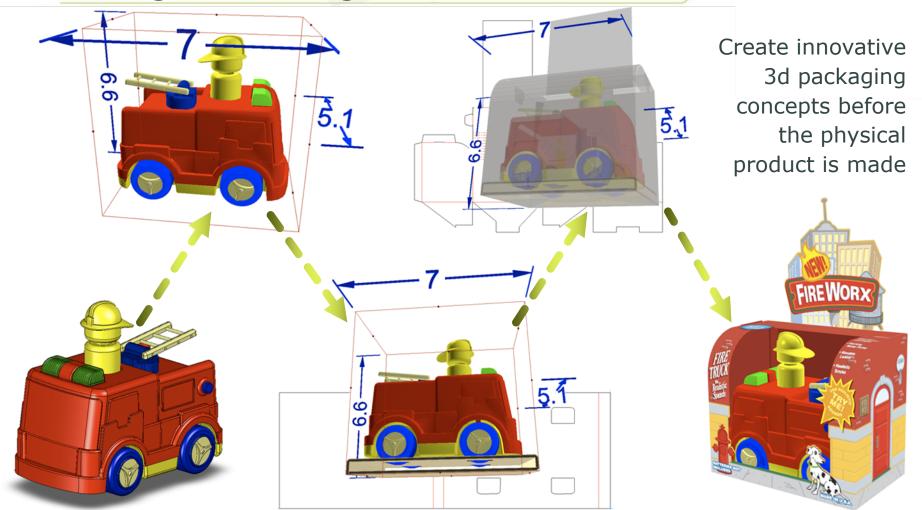


#### This will cost you money and customers...





## Intelligent 3D design



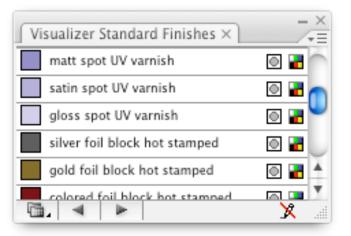


#### Adding Value – Virtual Prototyping for Folding Carton





Show your customer the 3D effects of substrate, special inks, foils, embossing and varnish, ...





#### **In Store Shelf Simulation**

- Hyper-realistic previews of the product inside the packaging inside the display or shelf store ...
- ... even before the first mockup is made.





#### In store 3D simulation technology









### In store 3D simulation technology







#### Adding value - Market research

- Companies like Hotspex specialize in online consumer response.
- Immediate feedback from the test audience
- without bringing the test audience together!





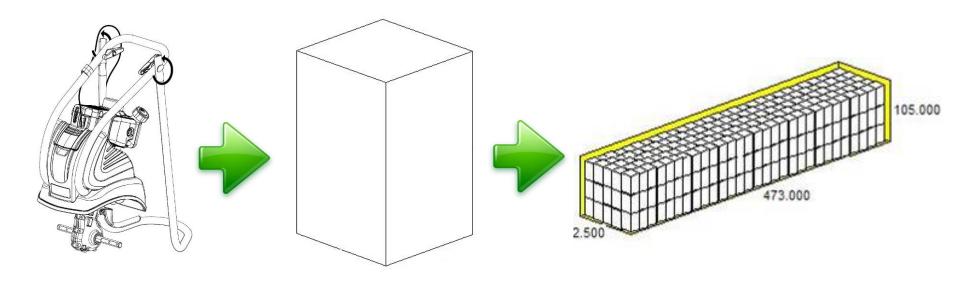






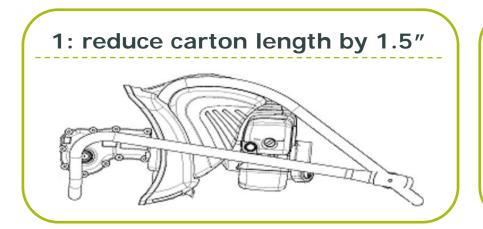
#### Adding Value – Palletization and Logistics software

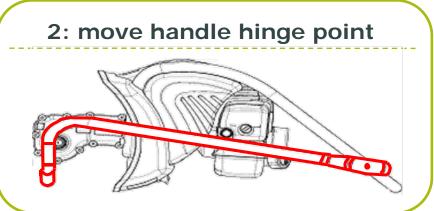
- CAD data contains info about size and weight of the final packaging.
- Based on your CAD data, applications like Cape or Tops Engineering can return Utilization Ratio's.
- Use this information to design more efficiently!

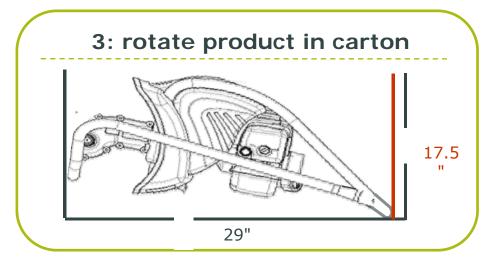




#### **Intelligent Design Changes**

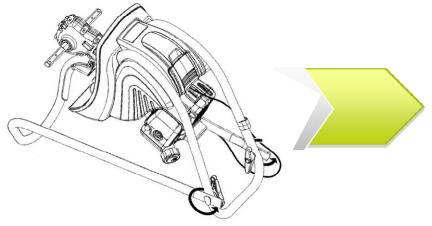




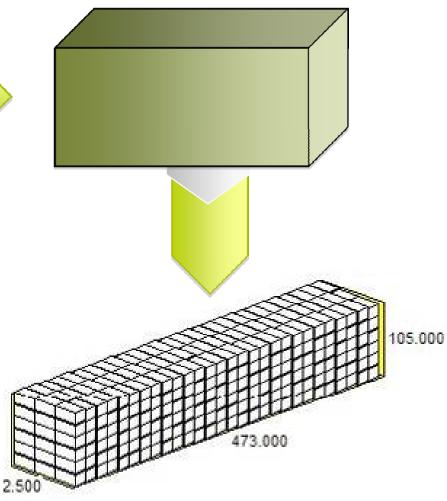




#### **Results!**



- 504 units/container
- 14% increase in utilization
- 24 fewer containers/year





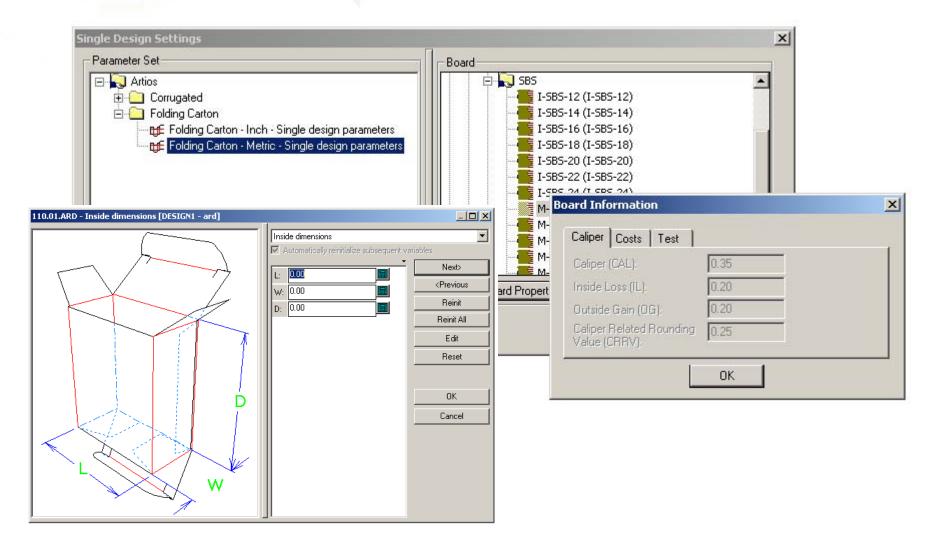
#### Adding value - MIS/ERP integration

- Bi-directional link between CAD workflow and business systems
- Single point of entry for design specifications and critical data
- CAD as well as graphics
- The result:
  - Reduced errors in the workflow
  - Less product recalls due to typing errors





#### Database driven design - CAD





## Database driven design - Graphics





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#### How is that useful for me?



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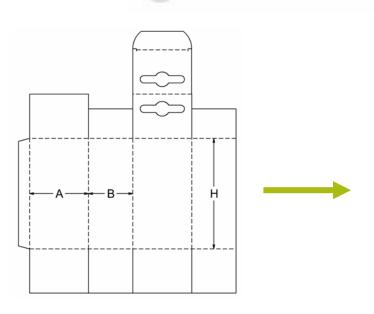
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#### Adding value – Sustainability and Carbon footprint

- Board specifications are linked to the die-shape.
- Feed this information in sustainability assessment software to estimate environmental impact of packaging design solutions

COMPASS" COMPARATIVE PACKAGING ASSESSMENT









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#### **Realised Benefits**

- Process reduced from **13 stages to under 10**
- **50-70% cycle time reduction** in many areas
- Error control prior to artwork release
  - Saving on supplier fees for corrections
  - No more mismatch of die line to artwork
- Shipping costs reduced by 50% or more
- Suppliers are integrated in the process
- Automated workflows reduce human errors
- Timeline **reduced by over 40%** across the entire design lifecycle process





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