

## Dassault Systèmes

From product and package ideation to 3D consumer validation in a single business platform

FOOD SESSION Fabbrica Futuro Bologna, 19 Marzo 2014





# Packaging is a key driver to win at shelf

- ▶ In-store is the #1 driver of product awareness.
- 85% of purchase decisions are made in store.
- ▶ 70% of purchases are done in seconds.
- ▶ 100% of "closing the sale" is driven by packaging & artwork.

Perfect Package + Perfect Shelf = Win with the Shopper

#### **CPG Trends**

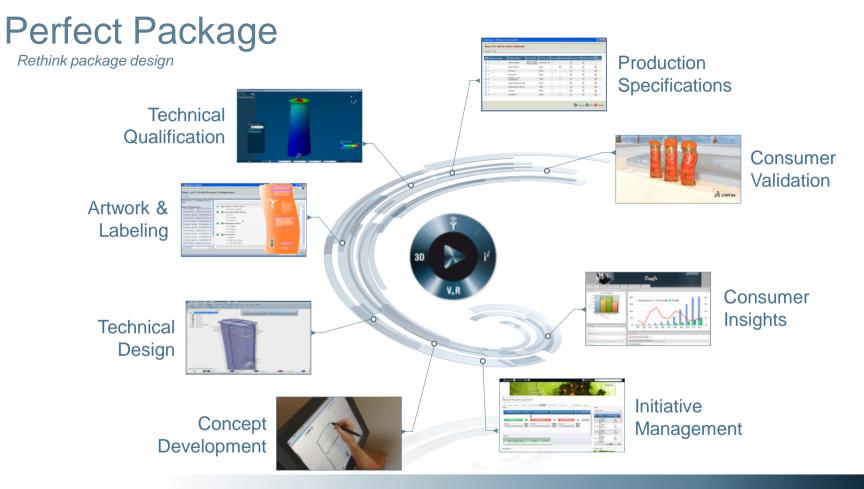










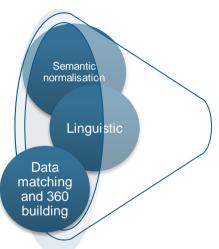




# Consumer Insights Understand consumers through sentiment analysis.







Semantic factory

#### Dashboard Intelligence





Consumer Insights
Listen to consumers conversations to anticipate trends and issues

#### ▶ Trends Detection

- Analyze Social network Facebook, twitter, blogs...
- What is trending in your competitors social networks
- Positive/Negative, trends, New Product



#### Market Validation

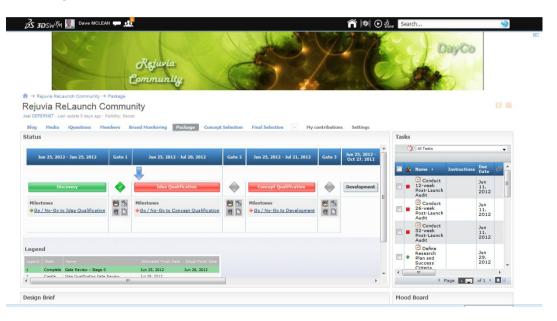
- Leverage users experience and suggestions
- Provides warning of potential market issues





### **Initiative Management**

Manage a concurrent package design efforts inside and outside the enterprise.



## **Initiative Management**

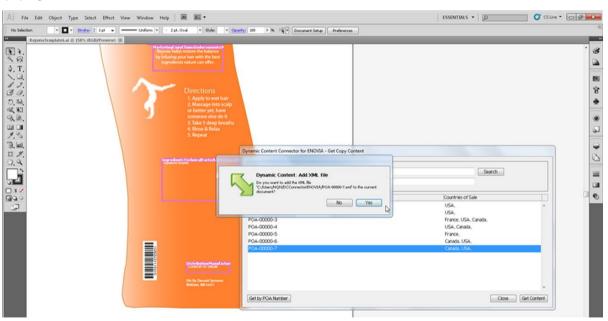
Requirements-led design using stage-gate processes and social tools.





### **Artwork & Labeling**

Avoid recalls by centrally managing label development across the artwork "supply chain."



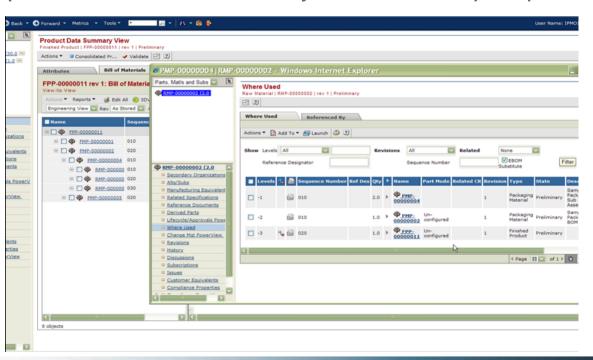
# **Artwork & Labeling**

Manage copy and graphic templates to rapidly create new artwork.



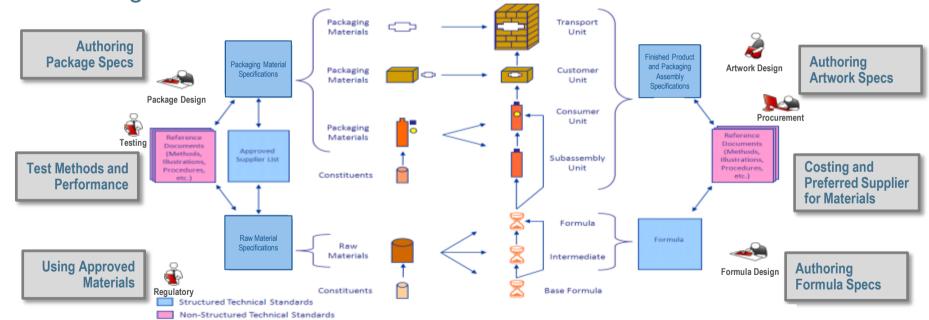
### **Production Specifications**

Manage specifications across its lifecycle from concept to production.



### **Production Specifications**

Drive cost savings and compliance through integrated specification management



#### **Consumer Validation**

Translate concepts into photorealistic renderings for review and research.





#### **Consumer Validation**

Show new packages in context to review with consumers.





#### Perfect Package...Design Winning Experiences

- Identify winning concepts faster by using 3D to assess more packaging options earlier in the process. (package effectiveness)
- Move <u>from serial to concurrent</u> <u>package design</u> across the entire design ecosystem. (time to market)
- Prevent costly recalls by creating tighter integration and control of artwork development and copy management. (cost reduction and improved quality)
- <u>Drive packaging reuse</u> instead of redesigning new packages for every product initiative (# of packages)
- Lower cost of goods sold through materials management, lightweighting and reuse.



#### Procter & Gamble

Reinventing innovation from "molecule to shelf"



Packaging simplification is another big opportunity. P&G spends over \$5 billion annually on packaging materials and more than \$250 million on packaging development costs. The packaging development process touches every function in the Company, involves more than 3,000 employees, and has significant opportunities for simplification and cost savings. We are implementing virtualized end-to-end packaging development tools, which we believe can drive a 30% reduction in packaging costs and release 30% of the time spent today on package design.

P&G 2011 Annual Report

#### Challenge:

"We want to be a \$100B Company that acts like a \$10B one. We need to operate better inside & outside to become flatter, faster, simpler. Digitizing the company entirely from molecule to selling/shipping products is what will help us operate as a small company."

#### Solution:

- Partnered with Dassault Systemes to innovate from "Molecule to Shelf." after exhaustive assessment done by Kalypso of P&G PLM capabilities and PLM providers.
- Created holistic, integrated platform for product and packaging innovation leveraging modeling & simulation.
- Rolled out V6 PLM to between 15,000 and 25,000 P&G employees and partners to create a single product and packaging data backbone connected to SAP.

#### **Benefits:**

- Significant reduction in the time and cost to create new packaging and replicate initiatives globally.
- Large reduction in quality incidents and regulatory issues.





#### P&G and DS:

#### **Establishing a Track Record of Success**



Enterprise PLM Standardization Simulation **Business Transformation Process** The future of the industry will go to the Optimiz. **ENOVIA V6** innovators. P&G is clearly positioning itself Model-Based to be at the forefront of those innovators. CPG Accelerator for Formulation **Integrated Product** Virtual Mark Harrop Mgt **Testing** Founder and Managing Director enginuity. PDP Group **ENOVIA V6 SIMULIA V6** Virtual and Enterprise-wide Digital **Virtual Testing PLM Backbone** exalead Design Simulate Impact on Primary and Secondary Packaging and **ABAQUS** Production Materials Line Dynamics Packaging and Simulation **Label Mgt MatrixOne VIRTOOLS** Materials

CSS

1998

**Standardization** 

Modeling & Simulation and Virtual Solutions 2004-2006

**Consumer Market** 

Knowledge

PLM Backbone

Packaging Reinvention 2010 Product Reinvention

2008

2009

2011

# In Summary: Rethink Package Design

- Cut design time in half through using a concurrent design process.
- Connect internal organizations and external partners via a single platform.
- Avoid costly recalls through integrated artwork process.
- Qualify packages using virtual models.
- Validate new design concepts with consumers earlier in the design process.











