



# **CENIT Successful with 3DS-PLM**

Alin POPESCU, Sales Manager



Machining User Day 01.04.2014 Bucuresti 03.04.2014 Arad

## **CENIT** in a Nutshell













~ 700 committed employees

Established and steadily growing public company

Broad and comprehensive product porfolio

Strong partnerships

14 national and international locations

### What we stand for





#### Financial Strength

Financial independence

Sustainable increase in shareholder value through steady sales growth

Shareholders participate in the annual success of our enterprise



# **Customer Orientation**

Customer oriented teams

Development of individual solutions

Reliable and long term partnerships



# Motivated Staff

Skilled, well trained employees

High level of commitment

Entrepreneurial thinking



# **Trusted Partner**

Excellent process and technology knowledge

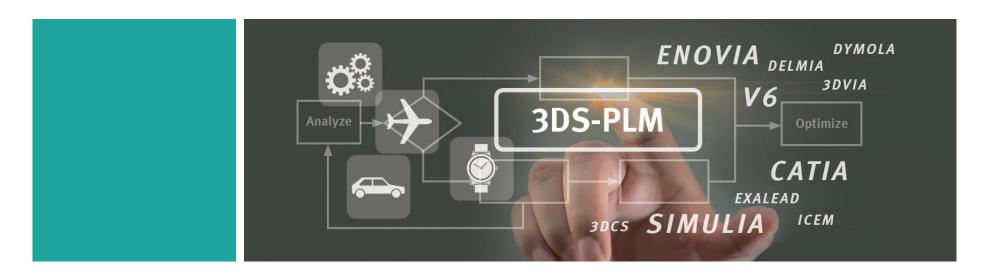
Optimization of core business processes

High innovative power

Long term partnerships

### **Our 3DS-PLM Mission**





As a leading, multi-national value-added reseller, CENIT AG has the world's broadest Dassault Systèmes PLM solutions portfolio. **Our experts combine decades of experience in 3DS standard solutions with industry-specific process and technology expertise.** We have the "know how" to help you succeed!

CENIT's industry and business process experts for the manufacturing, automotive, industrial equipment, aerospace and consumer goods industries support you to optimize your current product development processes.

## **3DS-PLM Skills**





# **Industry Portfolio Roadmap**





CENIT Solutions



**FASTSUITE** 

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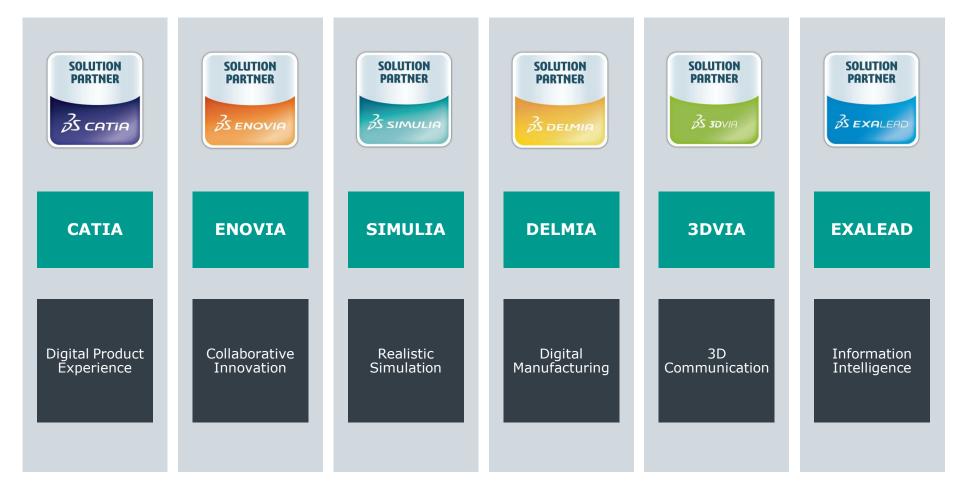
Mechanical Design		CATIA	V5/V6		
Electrical Solutions		CATIA	V5/V6		
Composite Design		CATIA	V5/V6		
Systems Eng.		DYM	OLA 7		) =
Virtual Simulation		SIM	ULIA		)
Tolerance Management		3DCS	(V5)		1
Collaboration / REQ. Doc / Proj. Mgmt		ENOV	IA ST		
Config/ Program Change Mgmt.		ENOV	IA V6		1
Search based Applications		EXA	LEAD		
Documentation		3D Via C	omposer		
Manufacturing		CATIA V5 - D	ELMIA V5/V6		
Robotics		DELM	IA V5		

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**CENIT Industry Accelerator Suite** 

# The Dassault Systèmes Brands





# One stop shopping with CENIT







### Software



### **Industries**



### **Service**



### 3DS-PLM



# **Training**



# **CATIA Machining** Some customer references



#### ACT Aerospace

Cuts detailed design time 90% with CATIA for Composites



ACT Aerospace engineers use the CATIA Advanced Machining module to create computerized numeric control (CNC) toolpaths for producing lay up tools on 5axis CNC machines. "When we got our new 5-axis machines, we were concerned that we would have to pull the programming back to the engineering department. But CATIA Advanced Machining is so intuitive that operators were soon using it to generate programs for the new machines."said J. Mickelsen, Lead CATIA Designer

#### List Components (Austria)

"The CATIA V5 NC module covers the entire machining sequence from roughing to finishing. Through the integrated simulation of material removal and the visualization of remaining material, process safety increases and machining costs are reduced."



CAD system and then went out on the manufacturing floor and tried to build it.

decision to invest in leading-edge technology to simulate the lay up process on the computer. 'Our cu

DASSAULT SYSTEMES

#### List Components & Furniture GmbH



#### Overview



Since 2005, List has been using CATIA V5, Dassault Systèmes' collaboration





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# **Some customer references**

#### Kaji Metal Industries (Japan)

"When expert NC programmers use CATIA V5, more ingenuity can drive more capability from the machining equipment." - Ryuichi Ogawa, Executive Director in charge of production technology

#### Bombardier Aerospace (Canada)

NC Programming time and costs have been reduced by 30%

Engineers need to be able to re-use parts and assemblies from other aircraft programs to jump-start projects, reducing cycle times and cost. Downstream processes such as manufacturing and after-sales require access to detailed design information so they can quickly analyze the impact of design changes on shop floor automation and design



IBM Product Lifecycle Management



#### Kaji Metal Industries

Forges ahead with a three-fold increase in productivity with CATIA V5



"When expert NC programmers use CATIA V5, more ingenuity can drive more capability from the machining equipment."



Overview

- The Challenge
  With an increase in the
  volume and complexity of parts
  and a simultaneous shift to
  component production, reducing
  production time was critical for
  Kall Metal Industries
- The Solution CATIA V5 achieves fixture design and 5-axis machining at higher speeds and accuracy to meet increasing customer demands
- The Benefit

  Compared to conventional

  methods, Kaji has achieved a

  three- to four-fold increase in

  machining productivity with

  CATIA VS.

More parts, faster production

times required

Kaji Metal Industries does high
speed, high accuracy machining
for aeroplane bodies and main wing
components, from the design and
production of fintures necessary for
part production of fintures necessary for
part production for industriang in machine products. Rejai one of the
machine products. Rejai one of the
flow plants certified by Boonig in
Japan and the schnology, wilability,
high quality and short delivery times
are highly valued internationally

The company is well-known for large scale machining, for example, both large and complex three-dimensional shapes. To ensure light-weight, uniformity, high strength and reliability Kaji cuts parts one-by-one from aluminium alloy blocks instead of mas producing parts with die casting using pend or seed in the control of the control of

Production within the industry, however, is shifting from independent parts to component production or part assemblies of multiple parts, while the numbers and kinds of parts produced is increasing and companies are under ever-increasing pressure to perfect on produced or produce produced to the produce produced or produce produced to the produce produced produc

V5 PLM SUCCESS STORY

#### Bombardier Aerospace

Driving collaborative innovation across the extended enterprise with V5 PLM



Aerospac





# **CATIA Machining** Some customer references



#### Evernham Motorsports (US)

"With CATIA V5, it's one click to move from design to analysis and then another click to move to NC programming. That's invaluable because each one of our engineers performs all three tasks, and they only have to learn one user interface. A lot of packages are really good at only one or two. CATIA V5 is great at all three. It has cut at least 50 percent off our development times", said Steve Oliver, Deputy Director of Design Services

#### TH-Tools (Finland)

More than 20 Years of experience in tool Manufacturing

"TH-Tools uses CATIA's Multi-axis Surface Machining to define the NC program that is then post processed using tailor-made post processors from CENIT for its Heidenhain and Fanuc CNC-controls. "We chose to take advantage of CENIT's postprocessor experience and strong integration between these postprocessors and CATIA NC code rather than create the postprocessors ourselves", said K.Söderling, leader of the Design Department

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#### **Evernham Motorsports**

Evernham Motorsports engineers a winning program with CATIA V5 and







#### TH-Tools









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# **Some customer references**

#### JSC 'Tyazhmash (Russia)

In order to improve processing quality, JSC 'Tyazhmash' purchased 5X high-speed milling machines and digital equipment controlled by CATIA. All parts manufactured by this equipment require no additional finishing. Furthermore, current equipment is being upgraded, thereby significantly improving the quality of the final product. The company was able to undertake complicated projects under extremely tight deadlines and thus increase the number of contracts signed with customers

### A-dec (US)

Fully automated manufacturing code generation

"In the past, every job on the floor required some intervention by our NC programmers, this has been eliminated by building the NC output into the models parametrically", said *W. Snyder, Furniture Engineering Manager* 



JSC 'Tyazhmash' Increases production by 80% with CATIA and ENOVIA SmarTeam



#### Overview

- Challenge
  To maintain its leading position in
  the heavy machinery production marke
  Russia's Joint-Stock Company (JSC)
  Tyuzhmash had to shorten design,
  engineering and development cycle fin
- Solution

  JSC Tyachmash chose CATIA and
  ENOVIA Smar Ream because they
  support the engineering tasks
  performed by JSC Tyachmash
  experts and are easy to implement
- Benefits With CATIA and ENOVIA SmarTeam JSC Tyazhmash' was able to speed production, improve quality, and process multiple orders

"The introduction of CATIA and ENOVIA Smar Team enabled us to increase production volumes by 80% and to decrease our product rejects by 50%."

#### Products for industrial equipment,

manufacturers

Established in 1941, Russia's Joint-Stock
Company (JSC) "Tyazhmash' is a leading
manufacturer of products for the industrial
equipment, energy and transportation secto
including metallurgy, construction, chemical
and oil processing, space, and gold and
diagonal energiation.

JSC Tyazhmash products are used prosport the world to equip themal pow plants operating with solid feeb as well as many hydro and nuclear power plants. They are also used by large integrated mir plants that process row, copper, langulen, mylydelanar, gold and diamond, as well a bloomet acce, open and shall mires to be compared to the compared to be compared to the compared to be compared to the compared to such discussions of the such discussions of such

With products recognized on both domer and international markets, JSC Tyazhm: capable of processing compile orders a solid reputation is mainly due to the high quality of its products as well as their dur and high serviceability.

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VE DI M SI INCESS STOR

#### A-dec

Automating dental cabinetry design and production with V5 PLM and Microsoft .NET







## **CATIA Machining** Some customer references

« Today, CATIA manages the entire design-to-

manufacturing process for cutlery, from initial studies all

delicate pieces or the forging of thicker pieces or knife blades», said C. Van Boxsom, Director Cutlery Division.

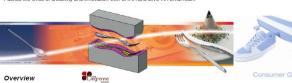
the way to the machining of stamping matrices for our most

Guy Degrenne (France)



#### **Guy Degrenne Group**

Pushes the limits of creativity and innovation with CATIA and ENOVIA SmarTeam



nded in 1948, Guy Degrenne Group is

995, before moving to CATIA V5." sai

#### ISCAR Hartmetall GmbH (Germany)

The CATIA V5 NC module covers the entire machining process from roughing to finishing. "With the CATIA V5 NC module and 5-axis simultaneous postprocessor, 40% of programming time can be saved compared to manual programming", said Kurt Brenner, Head of Technology & Manufacturing.

#### ISCAR Hartmetall GmbH





#### **Customer Statements**



"CENIT has a large and versatile PLM team and makes it available for us to quickly solve many different ENOVIA V6 related challenges."

Jürgen Staab, Engineering Administration, Takata AG

"Overall a large gain in security and traceability-without V6 we wouldn't have been able to manage the multitude of variants for the ISH 2013."

H. Hecker, Leiter Konstruktion, HANSA Metallwerke



"CENIT's consultants where always available for us every step of the way. The training and support services allowed us to quickly migrate from V5 to V6."

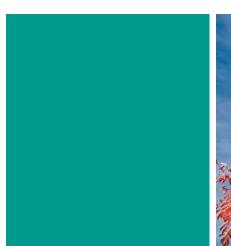
Octavian Stancu, Head of Product Design, Trafo Proiect "The experts of the PLM consulting firm were our trusted partners and advisors. Emphasis was always put on the flexible, global use of the V6 technology."

Bernd Göllnitz, Director IT Technology & Operations, Webasto AG

"We have been working with CENIT for many years and are highly satisfied with their services. Our relationship has developed into that of friends.

Daniel Reutimann, Digital Design and Development, Mecaplex







# **Thank You!**

# **Alin Popescu**

Sales Manager

Telefon +40 746 091 091 E-Mail a.popescu@cenit.de

#### **CENIT SRL**

WTC, Piata Montreal 10 011469 Bucuresti www.cenit.com