Projekt pod kontrolą

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Solutions Engineer MFG, Autodesk
The most common request to increase efficiency in design department

15%-20%

Reducing costs
Market demand
New markets
Capacity for innovation

Increased product/project complexity

New products
Draw Faster? More engineers?

5 Tips to Drawing Faster

- Look for and draw basic shapes
- Make comparisons within the picture plane
- Draw with your whole arm
- Use a different medium
- Omit details

Not a solution
Designers do not design only

- Research
- Models & Drawings
- Calculations
- Meetings
- Communication with other deps.

Requires and also produces data

Designer’s workday snapshot
Engineers waste, on average, 15% of their time managing data.

At one-in-four companies, engineers waste the equivalent of one day a week or more.

Impact of unstructured data management

1 in 4 companies waste 20 percent or more of their engineering time managing data.

Most common sources of waste

- Search/retrieval of data
- Repetitive design office tasks
- Sharing data externally
- Tracking ECO and release processes
- Organizing project data
- Viewing design files and documents
- Conflicts in document versions
- Losing design data
- Sharing data with internal colleagues

TOP 3 source of waste

- Finding the right information: 46%
- Collaborating with colleagues & data sharing: 43%
- Repetitive design tasks: 41%

Source: Tech-Clarity Perspective: The Facts About Managing Product Data, Tech-Clarity, Inc. 2015.
Windows® Explorer wasn’t made for engineers

57% use network or shared drives to manage product data

Source: Tech-Clarity Perspective: The Facts About Managing Product Data, Tech-Clarity, Inc. 2015.
Autodesk Vault product data management software helps engineering workgroups manage Digital Prototyping data.
TOP 3 source of waste

Finding the right information: 46%

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Repetitive design tasks: 41%

Source: Tech-Clarity Perspective: The Facts About Managing Product Data, Tech-Clarity, Inc. 2015.
Multiple data repositories

- Fileservers
- Local hard drives

Difficult to find
Duplicities
Risk of using outdated data
Centralize all engineering data in Vault
Find what you need, when you need
Reuse complex data easily
TOP 3 source of waste

- Finding the right information: 46%
- Collaborating with colleagues & data sharing: 43%
- Repetitive design tasks: 41%

Source: Tech-Clarity Perspective: The Facts About Managing Product Data, Tech-Clarity, Inc. 2015.
Data Sharing

- Shared folder Design
- Shared Folder Technology
- Shared Folder Production

Design/Engineering, Technology, Production
Poor data sharing causes sequential processes

Released Design Data

Design

Technology

Production

Released Mfg. Data
Latter changes costs more
Right access to right data at right time

Vault Professional Server

Released Design Data

Design

Technology

Production

Released Mfg. Data

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Right access to right data at right time
Sharing data with externals

60% of design done in-house

40% of design outsourced
On-premise & cloud - integrated solution

Secure sharing of reference heavy data with externals

Secure repository of all projects and all project related data

External collaboration on cloud

On-premise data management
Share data with externals securely and efficiently
TOP 3 source of waste

Finding the right information: 46%
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Repetitive design tasks: 41%

Source: Tech-Clarity Perspective: The Facts About Managing Product Data, Tech-Clarity, Inc. 2015.
The most critical outputs from design are...

### Summarized BOM for Part 2104

**5-Gal Tank Assembly**  
Quantity Required: 1

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<thead>
<tr>
<th>Component</th>
<th>Component Description</th>
<th>Qty. Required</th>
<th>Type</th>
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Typical BOM’s adventure from CAD to ERP
Automate BOM management
Autodesk Vault has been designed (not only) for engineers to help them to manage digital prototyping data efficiently.