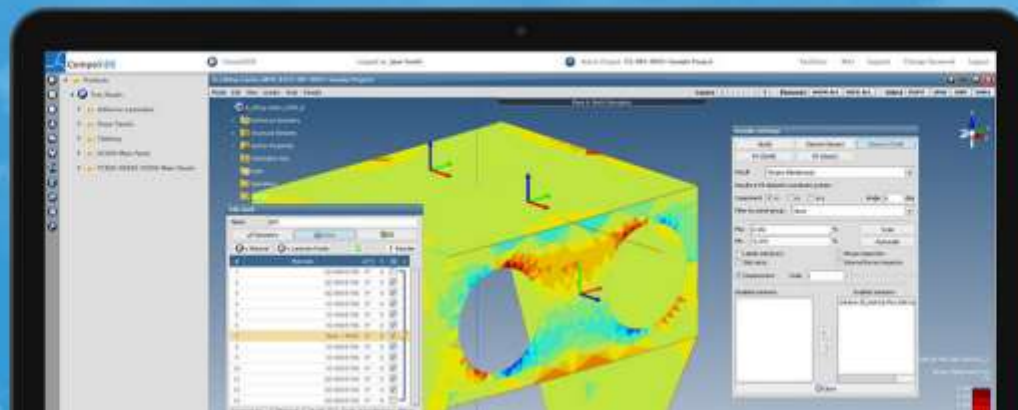


CompoSIDE presents

# CompoSIDE's Powerful Desktop Client for 2D & 3D Modelling and FEA



# Agenda



- Introduction to CompoSIDE
- Summary of Desktop Application
- Live Demonstration
  - ⊗ Installation of Desktop Application
  - ⊗ Desktop and Web based CompoSIDE Workflow
- Questions & Answers
- Conclusion

# Introduction to CompoSIDE

# Introduction to CompoSIDE



## ■ Composites

Software

Integrated

Design

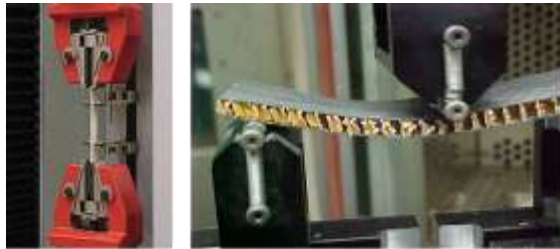
Environment

■ Launched January 2015




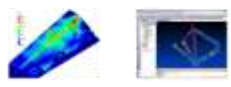
■ Over 250 Accounts to date



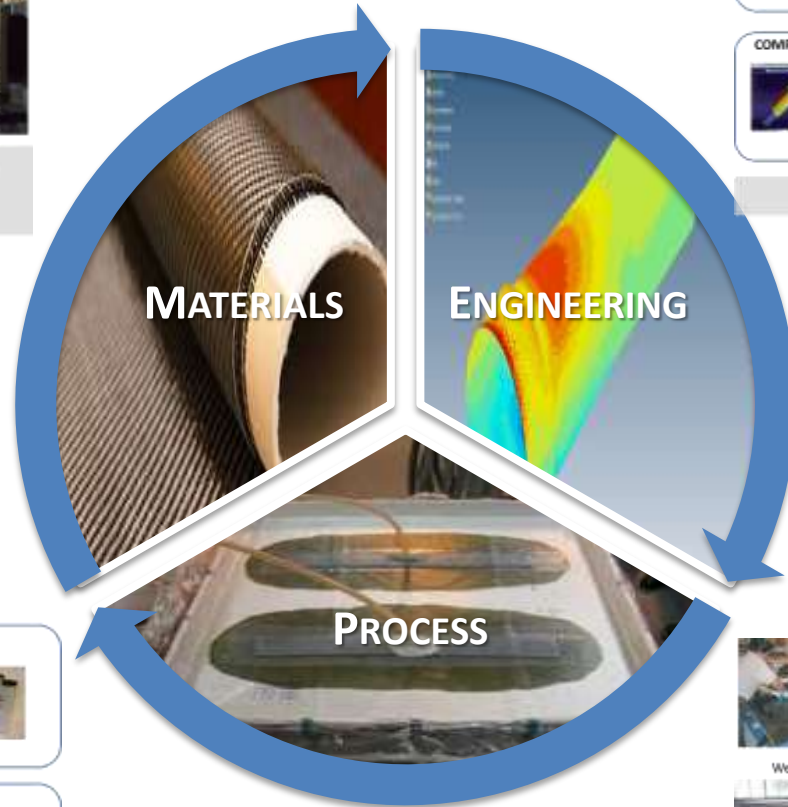
# Working with Composites



How expensive and long is material qualification?

<p><b>CLASSICAL LAMINATE THEORY</b></p> 	<p><b>CONCEPTUAL DESIGN</b></p> 
<p><b>COMPUTER AIDED ENGINEERING</b></p> 	<p><b>FINITE ELEMENT ANALYSIS</b></p> 

Which tools should I use?



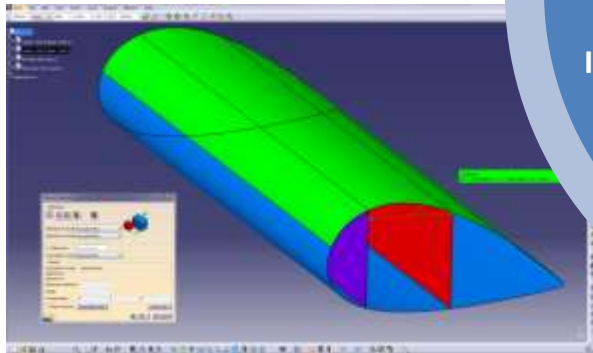
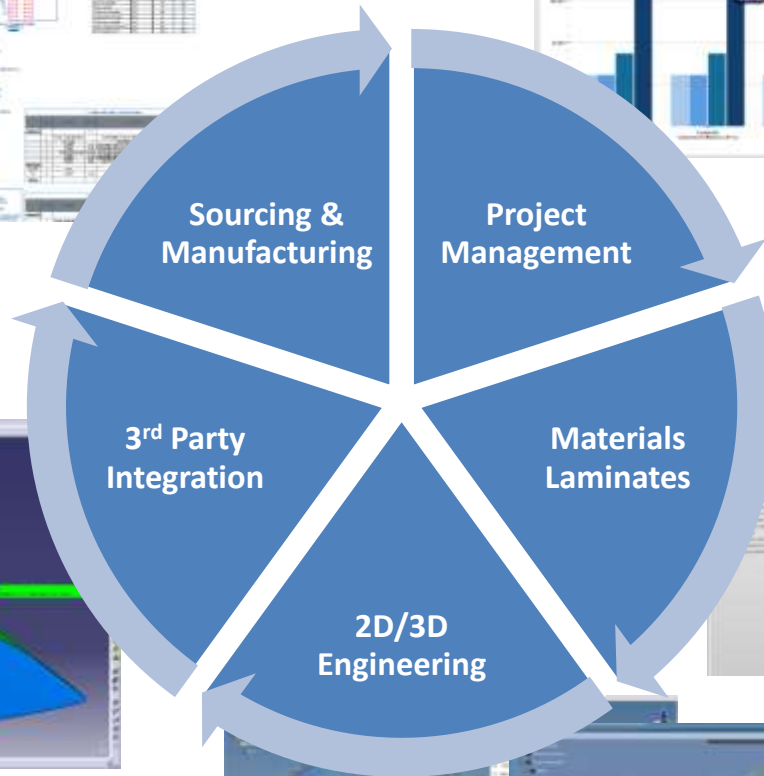
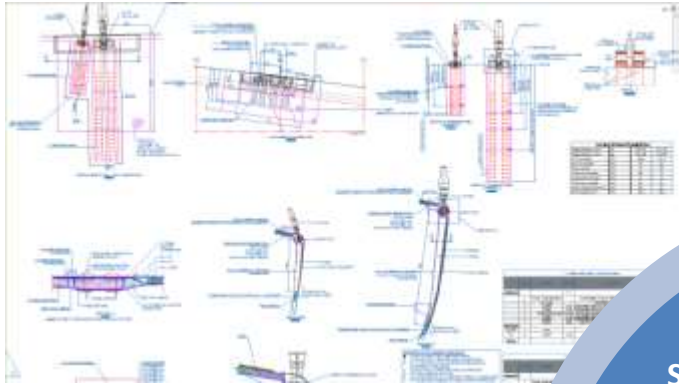
<p><b>Fibres</b></p> 	<p><b>Resins</b></p> 
<p><b>Cores</b></p> 	<p><b>Adhesives</b></p> 

What Materials shall I use?

 <p>Wet lamination</p>	 <p>Press</p>	 <p>Infusion</p>
 <p>Pultrusion</p>	 <p>Prepreg/Resin Film Infusion</p>	 <p>Automation</p>

Which Process shall I use?

# CompoSIDE Environment



# CompoSIDE's Desktop Application

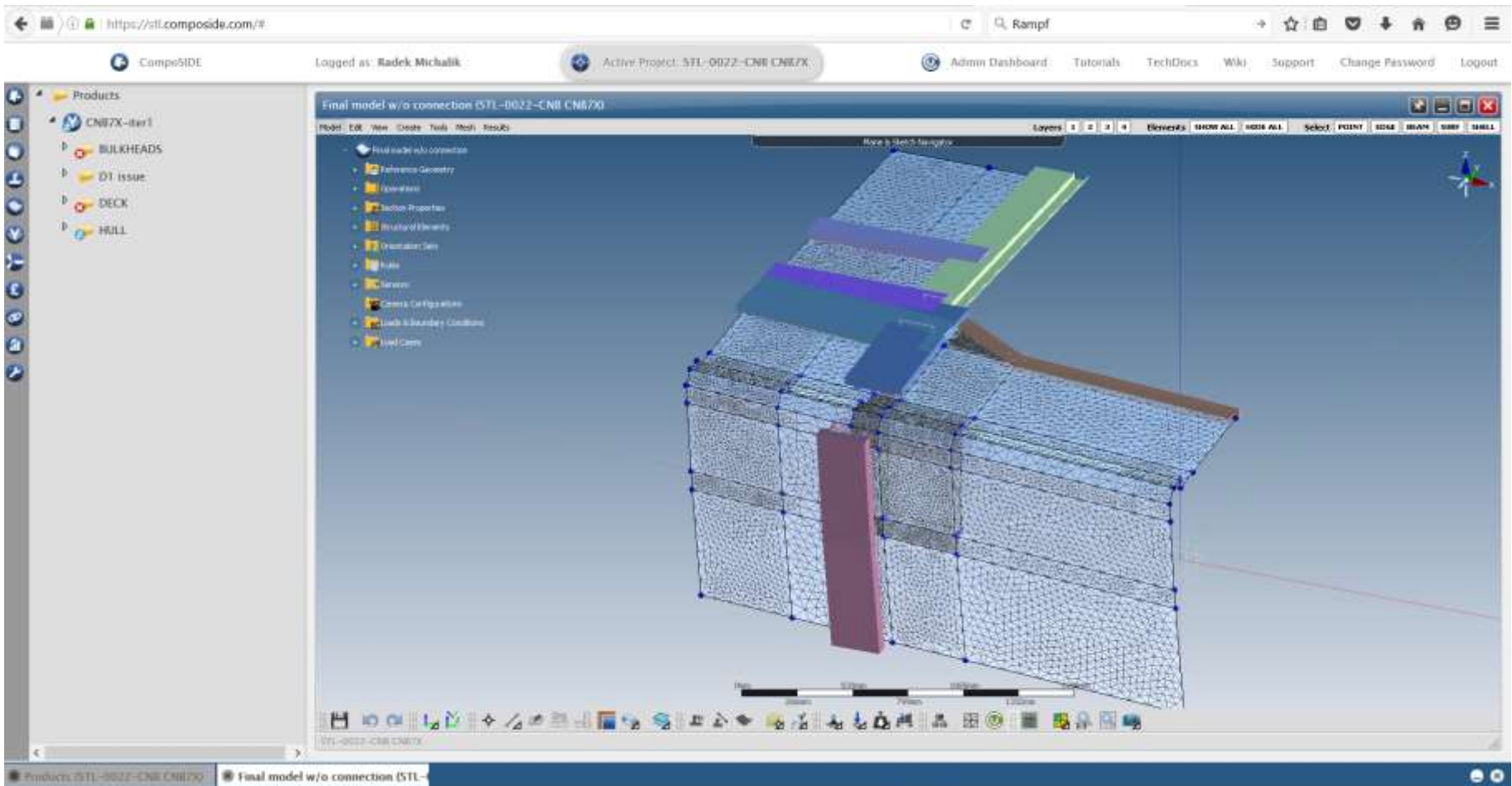
## ■ Industry Status

- ✘ A bit of history – 1995 Netscape and NPAPI Plugins
- ✘ Unity is one of them! As is Java Runtime Environment
- ✘ Web ecosystem is moving away from plugins.
- ✘ By end of 2017 most web browsers will stop supporting the NPAPI plugins
- ✘ Browser based 2D and 3D technology changes now and is being brought in directly into the browser! In a different way!
- ✘ But it is not all mature enough! => WebGL.





## SECTIONSpace and FESpace Web plugin starts automatically in CompoSIDE window in the browser



# NPAPI Web plugin Technology

## Web plugins NPAPI Status:



### Firefox Mozilla

- Not supported since beginning of 2017
- Work around existing until end of 2017 (Firefox ESR)



### Google Chrome

- Not supported since September 2015 (Chrome 45)



### MS Edge

- Not supported



### Safari and Internet Explorer

- Still supports it, no news as to whether they will stop

### Unity 3D

- Supports web plugins in previous versions up to UNITY 5.3
- Since 5.4 only option is WebGL although this is not fully stable (Released in march 2016)
- Unity will not develop Web plugin related functionalities



## ■ CompoSIDE

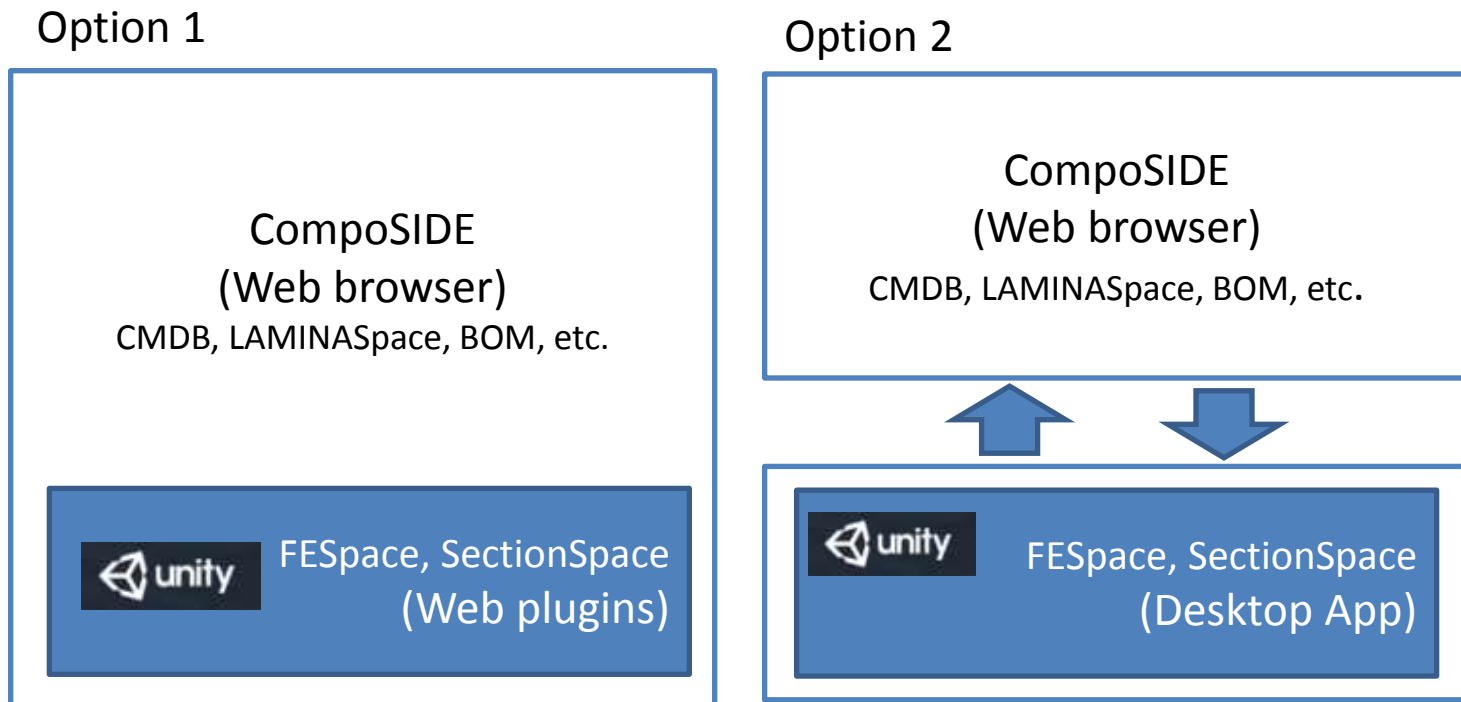
- ⊗ CompoSIDE 2D/3D graphical editor uses gaming web plugin Unity
- ⊗ Unity provides intuitive way to deploy solution to different platforms (Web plugins, Desktop App (Windows) , Mobile App etc.)
- ⊗ Desktop Application for 2D/3D editor was chosen as the viable solution to mitigate the situation and provide working alternative for CompoSIDE



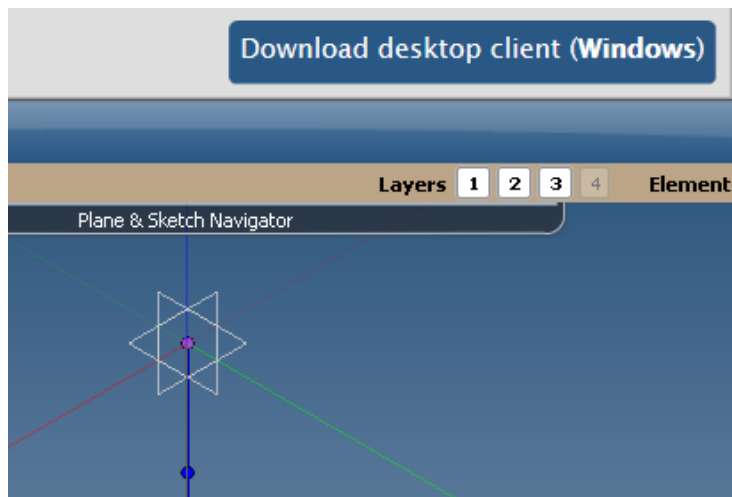
# Current CompoSIDE 2D/3D access



- Two Solution are now supported by CompoSIDE:
  - ✧ Option 1 – Web browser
    - Web browser with Web plugin Editor (FESpace; SECTIONSpace)
  - ✧ Option 2 – Browser + Desktop App
    - Web browser + Desktop Application Editor (FESpace; SECTIONSpace)



- Desktop Distribution and installation
  - ✧ We have a launcher for Windows Desktop which ensures correct version is used by the users
- User can download and install Desktop Application from within FESpace and SECTIONSpace



# Desktop Editor – Strengths and Weaknesses

## Strengths

- Solution Independent of web plugins but still keeping Web browser solution
- Improved performance and user experience for bigger models.
- More powerful (not limited by Browser)
- Browser independent
  - ▣ User can use any browsers

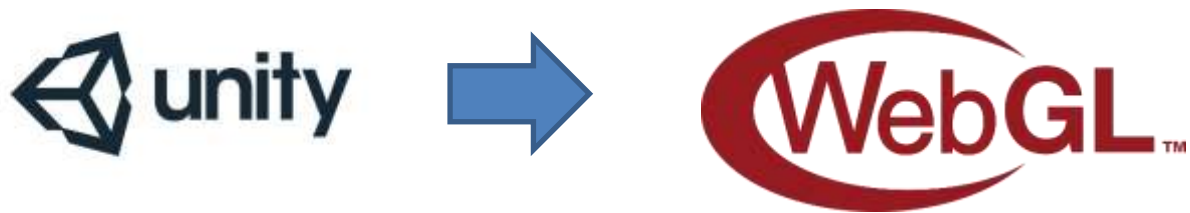
## Weaknesses

- Separate Installation is required (User)
- Dual environment browser/desktop
- Desktop Editor only for UNITY based modules

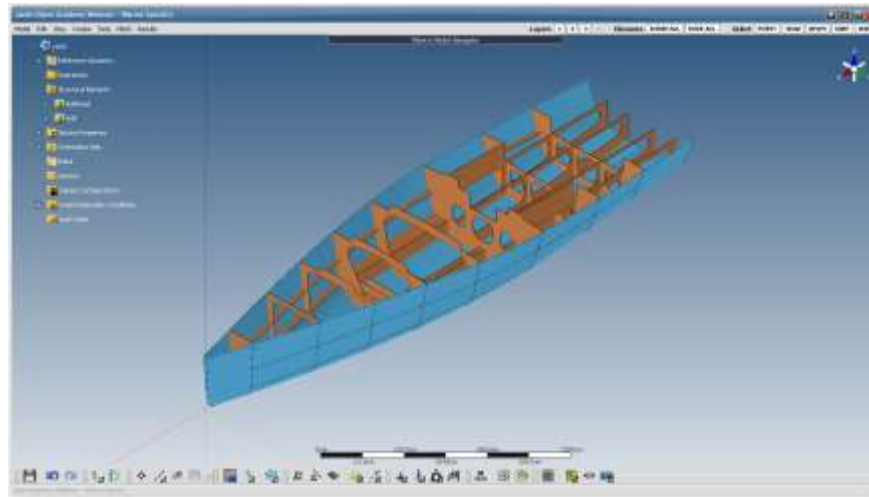


# Longer Term 2D/3D Management

- Two Solution now being evaluated within CompoSIDE:
  - ⊗ Solution 1 – WebGL



- ⊗ Solution 2 – Services approach for dedicated 2D/3D management

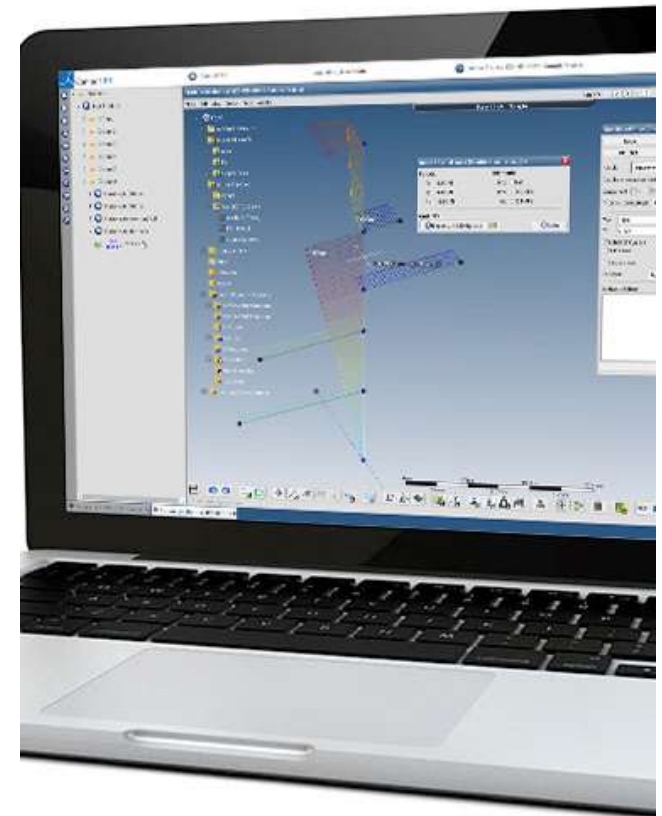


# Live Demonstration



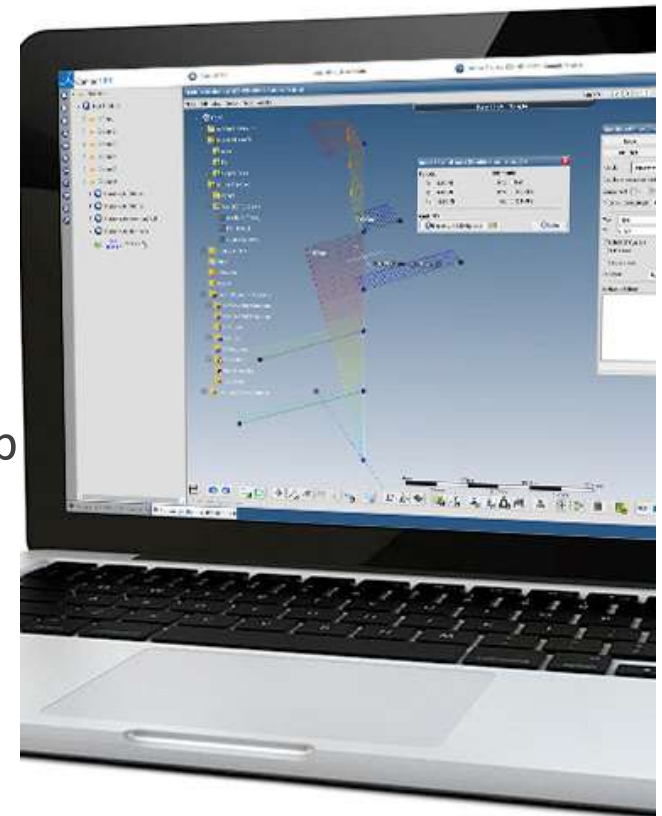
# Live Demonstration

- Introduction to CompoSIDE's Desktop Application
- Workflow Example: Browser + Desktop App
  - ⊗ Web browser + Desktop Application Editor



## ■ Workflow Demonstration Conclusions

- ❖ Dual window workflow allows faster switching between CompoSIDE modules
- ❖ Links in the 2D/3D editor open up the web browser when needed
- ❖ Data shared between Browser and Desktop Application instantly



# Conclusion

## Tangible Benefits

- Improved efficiency
- Easily Accessible & Scalable
- Saving days of engineering resources
- Improved quality and consistency of deliverables
- Reduced project costs





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# Questions & Answers

# Thank you

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