



**YOUR PARTNER IN
DIGITAL INNOVATION**

<https://fifthingenium.com/>

info@fifthingenium.com

WE ARE...

an innovative tech company
of engineers, designers and committed
strategists driven by a **passion for Digital
& Social innovation.**



Team

20 people, average age 31yr, 30% women

Offices

Milano, Roma, Caserta

Customers

Customers from 25+ countries from Europe,
Middle Est, Asia, America

+9yr

of experience
with Mixed
Reality, AI & IoT

+8yr

of experience
with Education,
Industry 4.0,
Medical Sector

+60

XR & AI
projects
developed

6

Tech Products
developed

50+

CERTIFICATIONS & AWARDS

SOME OF OUR CUSTOMERS



INDUSTRY 4.0



1



USE CASES

APPLICATIONS OF XR TECHNOLOGY



Operator Support

Assists workers during regular maintenance procedures via handy interactive **checklists** and **troubleshooting instructions** that will ensure higher rates of efficiency and adherence to operational excellence.



Remote / AI Assistance

Connects workers offering 3D remote **assistance with an expert guiding** the operator in real-time cutting travel costs and machinery downtime or use AI based Agent to support on field worker.



Real-time Data Visualization

Supports end users and product consumers with precise, **real-time information from IoT sensors** and external systems (ERP, CRM, MES) and assistance throughout the entire product life cycle.



Collaborative Design

Helps with the planning and executing of the assembly phases using **virtual guides** and other interactive tools which will greatly **improve brainstorming sessions** thanks to real-time visualization.



Immersive Training

Offers a **digital training platform** which can be used by a **single worker or collaboratively**. The immersive nature of XR technologies will ensure high engagement and knowledge retainment.



Sales Catalogue

Enhances the sales experience by enabling to **showcase the entire digital catalogue at scale**, including customized information such as 2D and real-time or historical data.

OPERATOR SUPPORT



WATCH [FULL VIDEO](#)

REALTIME DATA VISUALIZATION



WATCH [FULL VIDEO](#)

IMMERSIVE TRAINING



WATCH [FULL VIDEO](#)

COLLABORATIVE DESIGN



WATCH [FULL VIDEO](#)

REMOTE ASSISTANCE



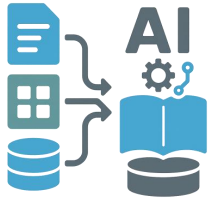
WATCH [FULL VIDEO](#)

SALES CATALOGUE



WATCH [FULL VIDEO](#)

APPLICATIONS OF AI TECHNOLOGY



AI Knowledge Agents

Intelligent Conversational Agent that query multiple data sources and expose unified answers from your knowledge base. Automatically extracts key information to generate targeted answers and operational suggestions.



Automated Support Management

Handles incoming support requests—fully or partially automated—for both customers and internal teams.



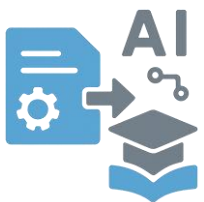
3D Quality Control AI Toolkit

Combine computer vision and AI 3D model comparison to analyze product features and detect defects or difference respect to the reference



3D AI Reconstruction

Reconstructs objects from scans, images or video and optimize the 3D model



Automated Training Course Generation

Transforms technical manuals into structured E-learning modules—complete with lesson outlines, quizzes, and multimedia assets.

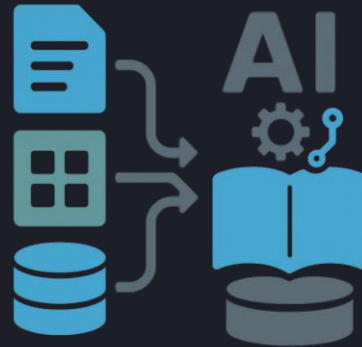
AI KNOWLEDGE AGENTS



Data Source

- **Unstructured Information**
(emails, phone calls, meetings, ...)
- **Field Experience**
(Conversations, reports, lessons learned, ...)
- **IOT data**
(sensors value,...)
- **Legacy Data**
(SAP, Salesforce, ...)

AI Engine



Output

Seamless Data Integration

Connects to a wide range of data sources—databases, knowledge bases, technical manuals, legacy systems—to ensure up-to-date, accurate information.

Omni-Channel Interaction

Users engage via web portal or dedicated mobile/desktop applications, choosing text chat or natural-language voice interfaces.

Dynamic Language Support

Delivers responses in multiple languages, automatically translating and localizing content to match user preferences.

Advanced AI Agent Capabilities

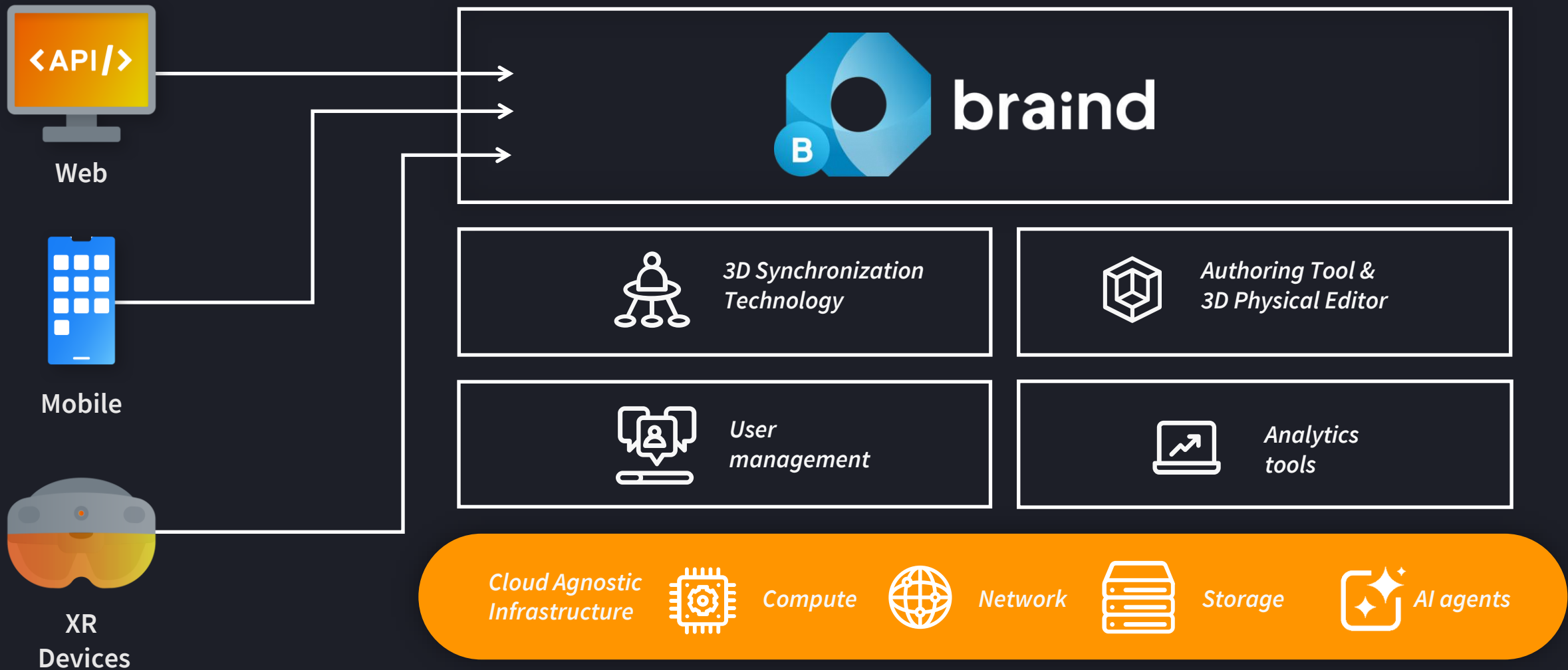
- **Report Generation:** Automatically compiles and formats data into comprehensive reports.
- **Content Synthesis:** Extracts, summarizes, and contextualizes information from manuals and external systems on demand.

2



PLATFORM

BRAIND: the XR Industrial Platform



HIGHLY SECURE, HIGHLY SCALABLE PLATFORM



CROSS-DEVICE COMPATIBILITY

Ensuring **longevity and flexibility** across different hardware systems is a priority when hardware changes and evolves in a short time span, eliminating the need for costly software redesigns as devices age. **Braind covers more use-cases** than the ones a single device can.



ROBUST SECURITY & DATA DELIVERY PROTECTION

The platform features a **no-code content management system** with customizable access policies with robust security, allowing users to upload files without requiring technical expertise.



TECHNICAL OWNERSHIP

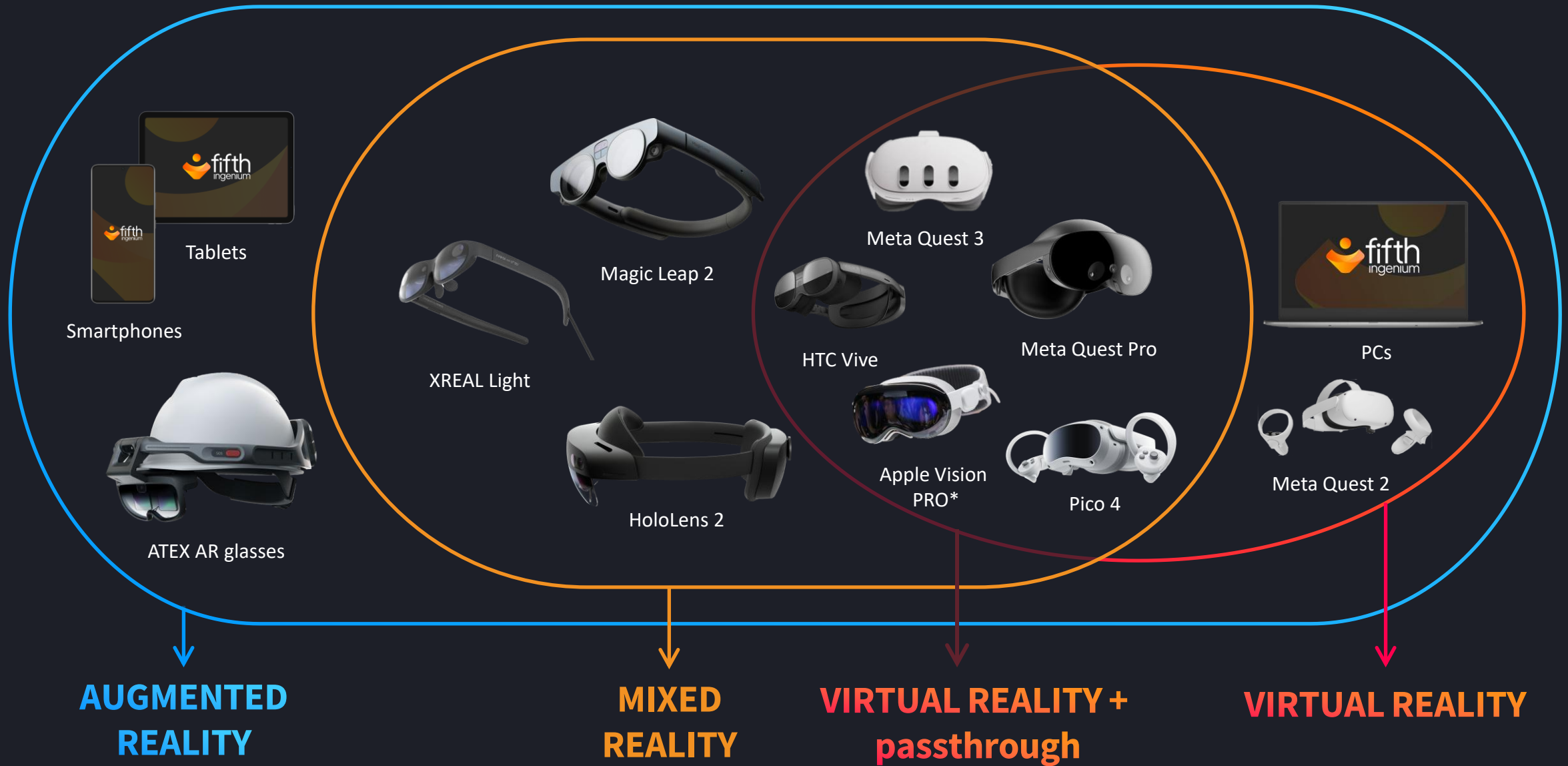
The entire infrastructure and software architecture is designed and developed by FifthIngenium's employees. This enables a high degree of customization and degree of integration with external systems (CRM, ERP, databases, APIs, etc).



DEPLOYMENT FLEXIBILITY

Our platform is **cloud agnostic** and can be deployed on a **Public or Private cloud** (AWS, Google, Azure) **and on-prem** or on hybrid configurations. BRAIND also supports 5G MEC deployments or inside the full/hybrid MPN.

XR Supported Devices



3



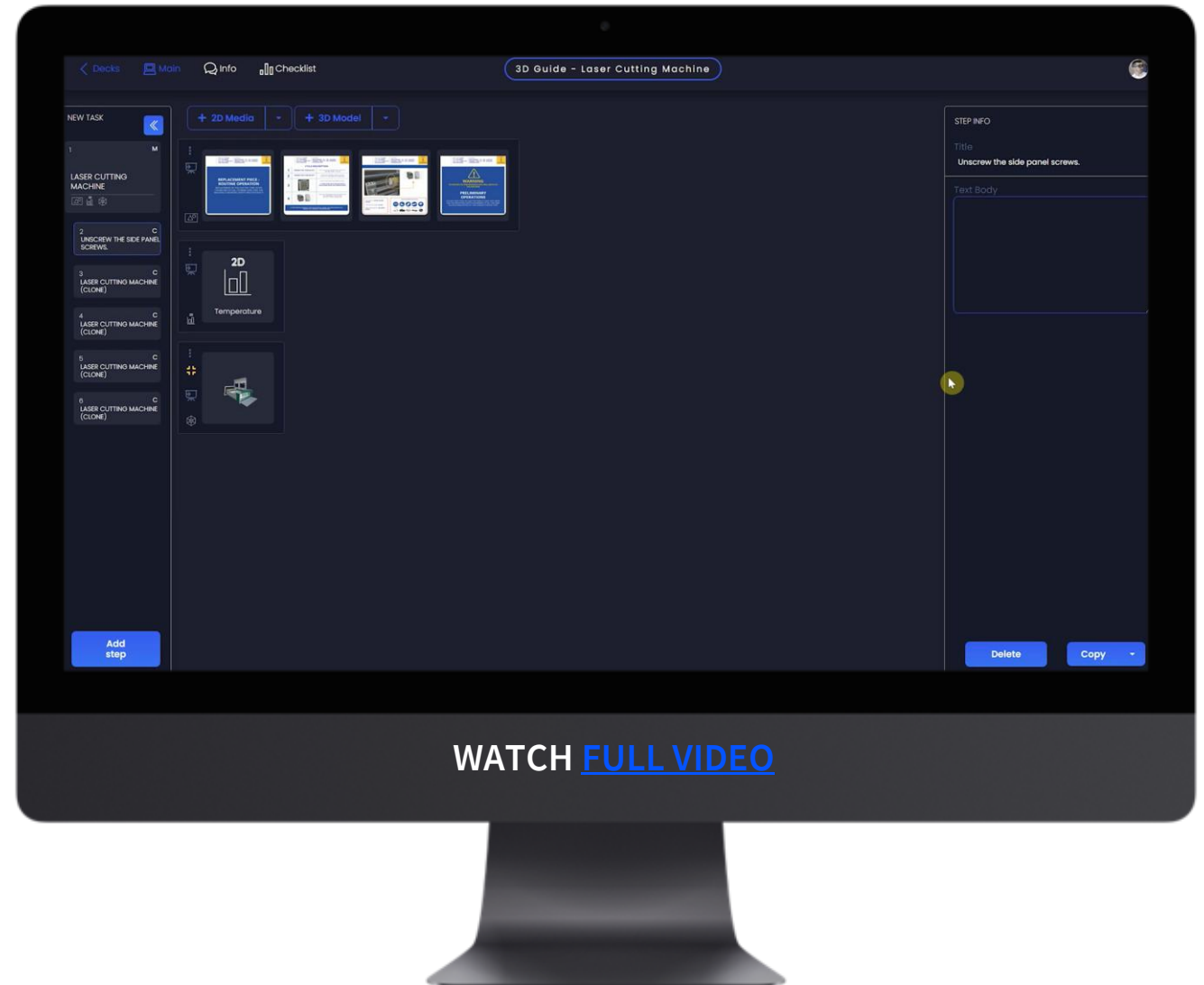
EDITOR

NO-CODE WEB EDITOR



Braind's Web Editor is a content creation tool as simple as **PowerPoint**, simply drag & dropping **2D & 3D digital contents** into a no-code platform from your PC.

- No Unity or coding skills required
- Supports **3D file** types: .obj, .ply, .stl, .glb, .fbx
- Supports 2D file types: .jpg, .png, .pdf, .mp4
- Also supports web pages, REST API & other transport protocols





EDITOR

- NEW TASK <
- 1 M LASER CUTTING MACHINE
 - 2 C UNSCREW THE SIDE PANEL SCREWS.
 - 3 C LASER CUTTING MACHINE (CLONE)
 - 4 C LASER CUTTING MACHINE (CLONE)
 - 5 C LASER CUTTING MACHINE (CLONE)
 - 6 C LASER CUTTING MACHINE (CLONE)

+ 2D Media + 3D Model



Title
Unscrew the side panel screws.

Text Body



WATCH [FULL VIDEO](#)

step

Delete

Copy

CHECKLISTS

Checklist ✕

+ Add Checklist

1. 1. Pre... ✕

2. 2. Pre... ✕

3. 3. We... ✕

4. 4. Ins... ✕

5. 5. Po... ✕

6. 6. No... ✕

1. Preparation and Safety

Done 4/40

Problem 7/40

+ Add Option ▾

Attachments: No ▾

Attachments: Required ▴

- No
- Optional
- Required**

Reference Step weld tools ▾

Macro buttons Multiple Answers Required ⋮

- Description
- Mark Correct Option
 - Help enable onload
 - Help button is visible
 - Go next on answer
 - Add Branching
 - Reference Step
 - Pointer
 - Allow Attachments

+

▴

▾

3. Clean the work area and joints to be welded (no oil, grease, rust)

Done 4/40

Problem 7/40

+ Add Option ▾

Attachments: Optional ▾

Attachments: Required ▾

Reference Step clean area ▾

Macro buttons Multiple Answers Required ⋮



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