

# COMPLETE INTEROPERABILITY

FOR CAD & BIM inWEB™

SDKs for professional software development



# About ODA



**1200**

Member  
companies  
worldwide

**85%**

Revenue  
to R&D

**100%**

Transparent  
pricing & free  
tech support

since  
**1998**

Experienced  
development  
team



# ODA PLATFORM

Formats & Technologies





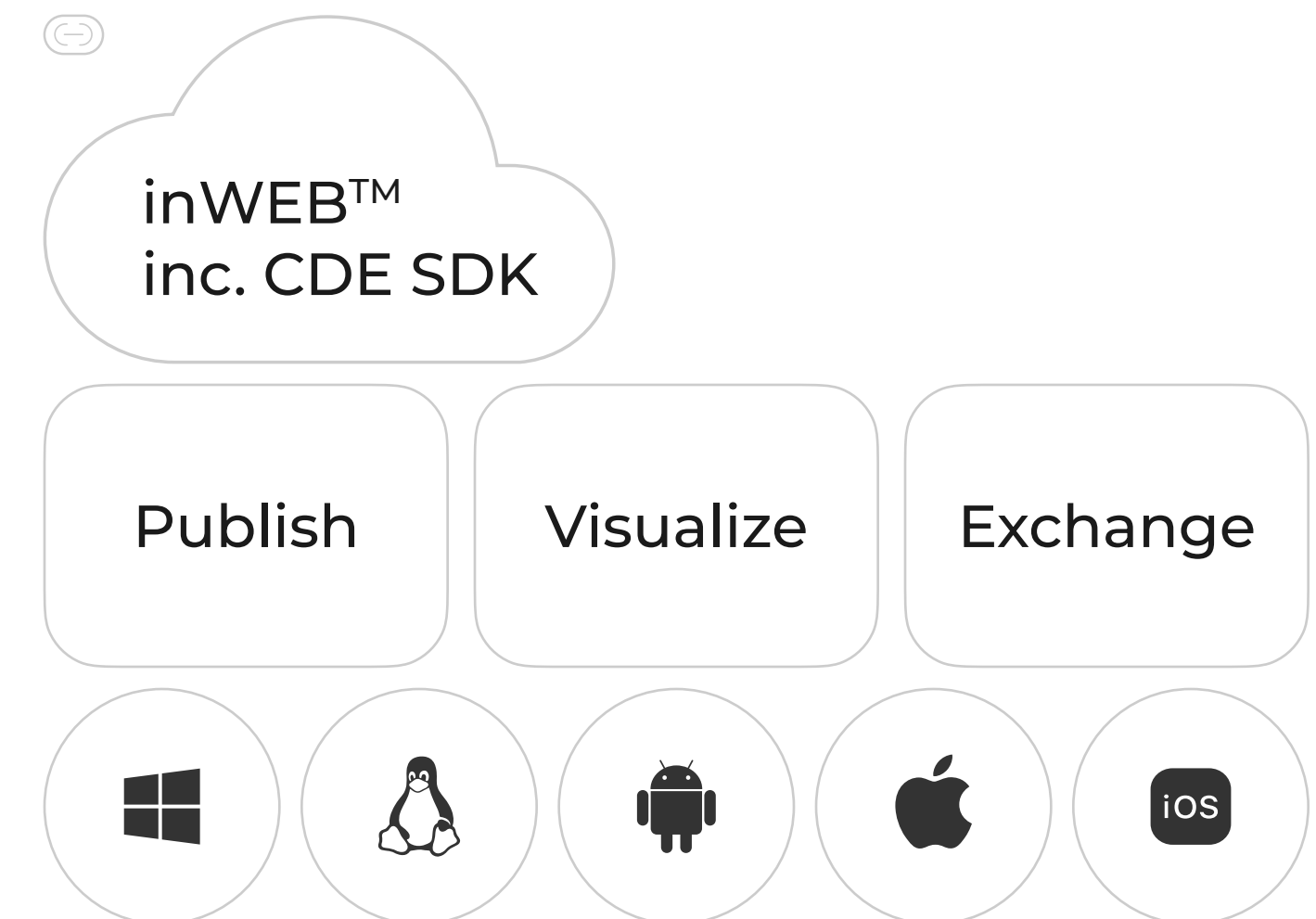
[Visit Core Package page](#)



## FORMATS

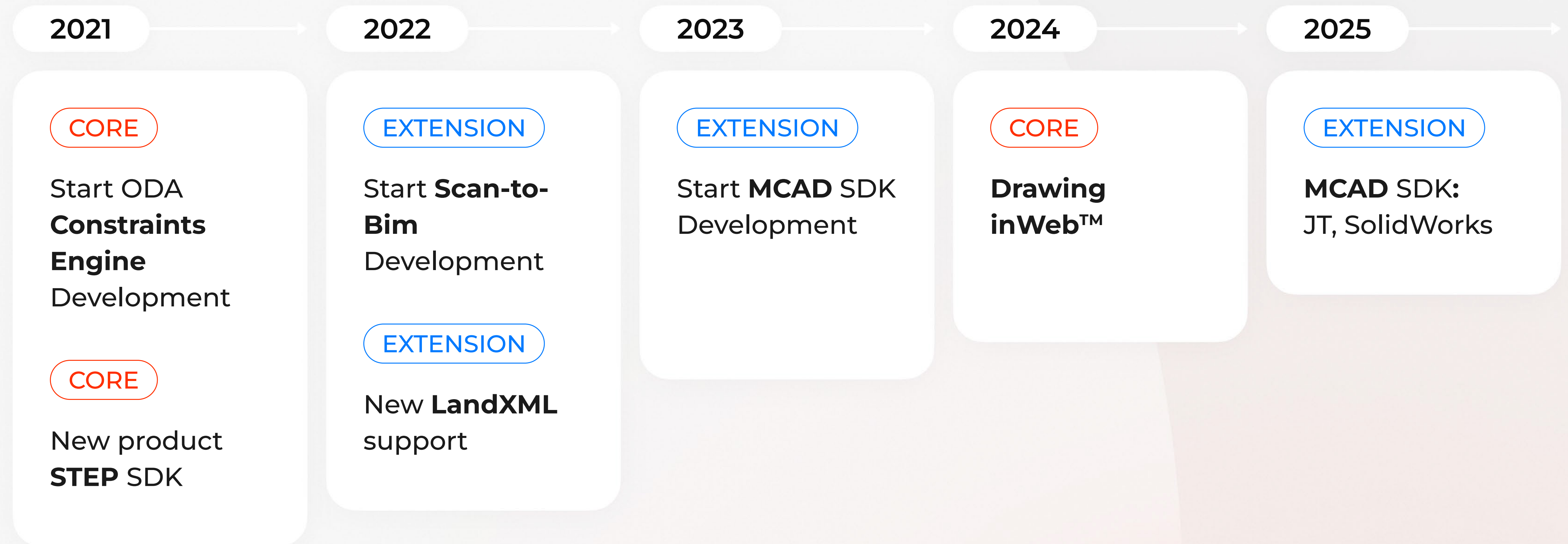
DWG		DGN		3D-PDF	
Architecture		IFC		STEP	
Mechanical		Map		Civil	
Scan-to-BIM		Revit files		Navisworks files	
Parasolid	SolidWorks		Catia		ACIS
Inventor	NX	LandXML	JT	IGES	

## TECHNOLOGIES





# Retrospective roadmap





# Format areas



2D CAD

BIM

3D CAD



# 2D CAD



## Drawings

DWG, DGN, DXF,  
DGN, ReCap

CORE 

## Architecture SDK

Architecture  
DWG files

CORE 

## Map SDK

Autodesk®  
Map 3D

EXTENSION 

## Mechanical SDK

Autodesk®  
Mechanical® files

EXTENSION 

## Civil SDK

Autodesk® Civil 3D® files  
& LandXML

EXTENSION 



# BIM



## IFC SDK

Work with any version of IFC,  
developed in collaboration  
with bSI

CORE 

## BimRv SDK

Work with Revit® data without  
dependencies on the native  
Revit® application

EXTENSION 

## Scan-to-BIM SDK

Convert point cloud data  
to 3D BIM models

EXTENSION 

## BimNv SDK

Work with Autodesk®  
Navisworks® files from  
any application

EXTENSION 



# 3D CAD



## Step SDK

Complete solution  
for professional STEP  
interoperability

CORE 

## MCAD SDK

Solidworks, Inventor  
and more

EXTENSION 

## Mechanical SDK

Autodesk®  
Mechanical® files

EXTENSION 



# Partnerships



**STEP**



**OpenBIM**

**IFC**



**cityGML**

**GIS**





# Technologies





## ODA Platform inWEB

### **Drawings inWEB™**

DWG editing  
in web

### **CDE SDK**

Create a new common  
data environment  
or enrich existing  
one with formats  
and functionalities  
from ODA

### **All SDKs**

available in web

Under development ✨



# Drawings inWeb™



Edit and view DWG files  
directly in the browser

Full control over  
data and security

Deployable in private or  
public clouds (Azure, AWS)

Supports 2D and 3D: zoom, pan,  
& orbit navigation

Based on a proven C++ engine  
compiled to WebAssembly



# CDE SDK

## Common data environment



[Visit CDE page](#) 



Visualize & Markup



Collaboration & Communication



Centralized Data Management



Data Integration & Interoperability



Version Control & Revision Management



Performance & Scalability



Secure Access & Permissions



Run on



Azure





## PRIVATE CLOUD

Quick deployment in any environment including an isolated local network without connecting to third-part services.

Source Code access with Founding membership

### CDE SDK includes



- ✦ Web server with REST API
- ✦ JavaScript library for rendering 2D and 3D files in a browser
- ✦ Various auxiliary applications from the WebTools package for running various tasks on the backend



# Visualize



[Visit Visualize page](#) 



**Rich import possibilities with  
access to native properties**



**Rich text rendering  
abilities**



**Optimized performance**



**Multi-threaded support**



**Progressive mesh object  
for LOD support**



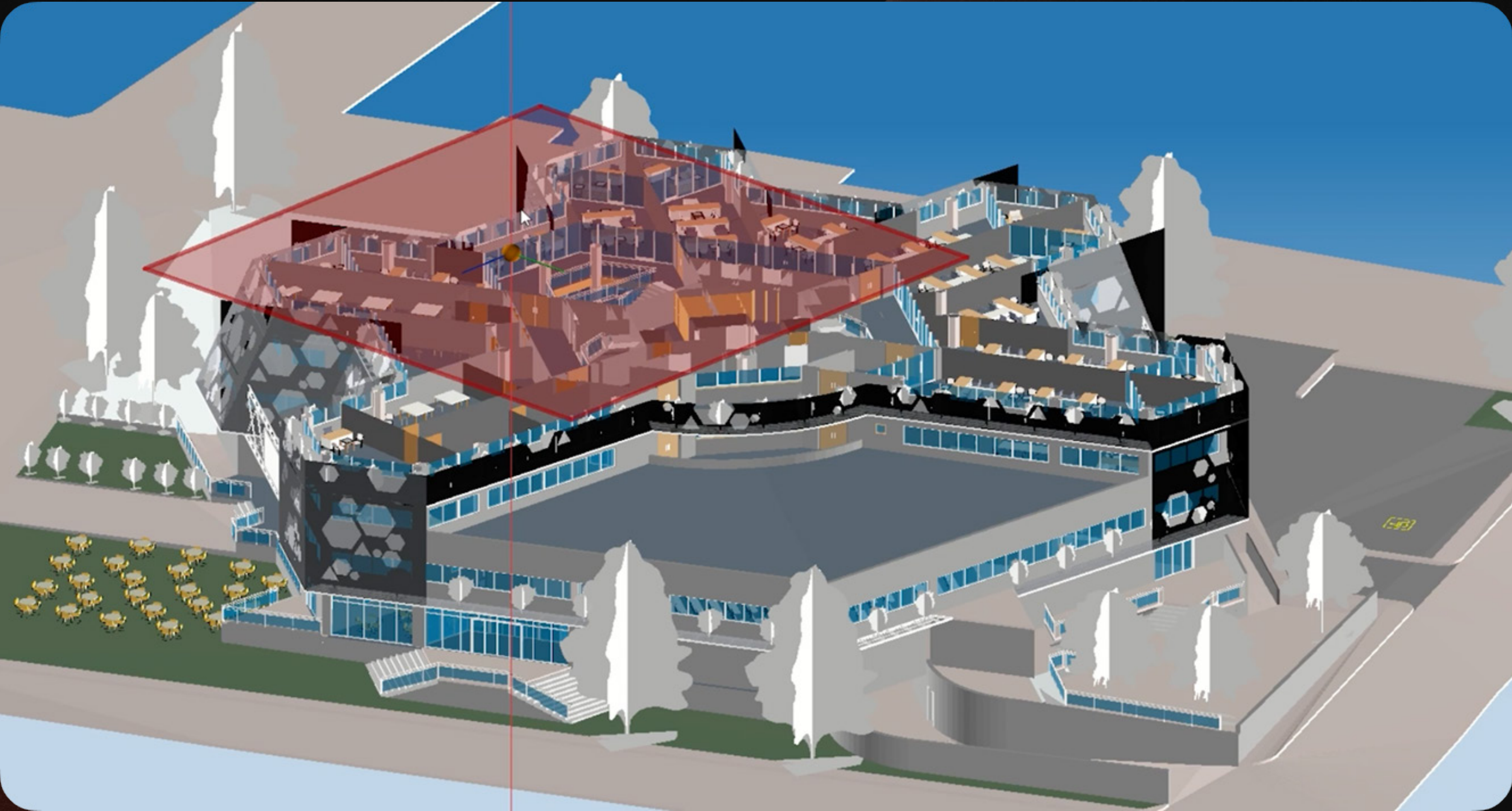
**Advanced GPU effects like  
real-time shadows**



# Visualize



Visit Visualize page [↗](#)



Open video [↗](#)



# Publish



[Visit Publish page](#) 



**Publishing from  
CDE**



**Complete PRC  
& Publish APIs**



**Complete 2D & 3D  
PDF export**



**Publishing from all  
supported formats**



**Extensive Configuration  
Options**



**100% compatible with ISO  
standards & Adobe® tools**



**Set of predefined controls  
for 3D publications**



# Exchange



[Visit Exchange page](#)





# ODA MEMBERSHIP

Collaboration & Honest Pricing



# Core Package



Key CAD & BIM formats  
& functionalities for your desktop,  
mobile & inWEB applications

EXTENSION

EXTENSION

EXTENSION



# Core Package



[Visit Core Package page](#)

DWG

IFC

RCS / RCP

DGN

PRC / 3D PDF

STEP

DXF

DWG Architecture

BCF

IDS

DWF

SVG

STL

OBJ



iOS



inWEB™  
inc. CDE SDK

Validation

Format  
conversion

2D and 3D  
PDFs

Professional  
visualization

Animation

Data  
extraction

Collision  
detection

Common Data  
Access API



# Extensions



[Visit Extensions page](#)

## BimNv SDK

for Navisworks® files

## BimRv SDK

for Revit® files

## Civil SDK

Autodesk® Civil 3D® files & LandXM

## Map SDK

## Mechanical SDK

## Scan-to-BIM

## MCAD



**THE ABILITY  
TO CREATE A NEW  
EXTENSION**

**SURVEY**

**STEEL**

Under development





# MCAD SDK



ODA is developing the industry's first open exchange platform for 3D MCAD

[Visit MCAD page](#) 

## Already done!

SolidWorks

Inventor

## Under development

PLMXML

3Shape DCM

Creo

SolidEdge

ProE

UG NX

CGR

CATIA V6

Rhino

Procera

CATIA V4

CADDS

CATIA V5



# PRICES & LEVELS



# Prices



[Visit Pricing page](#) 

## **Published pricing**

no 1-on-1  
negotiations

## **Site-based licensing**

not per-user

## **Prices approved**

by member-  
controlled board  
of directors



# Commercial



✦ Limited commercial use

[Visit Pricing page](#) ↗



## CORE PACKAGE

**\$3,000**

First Year Cost

**\$2,250**

Recurring  
Annual Cost

- ✦ Commercial distribution w/100 seat limit
- ✦ Libraries, headers and examples
- ✦ Documentation
- ✦ C++, .NET and Java versions
- ✦ Monthly releases
- ✦ No affiliate or subsidiary usage



# Sustaining



✦ Unlimited use+ web

[Visit Pricing page](#)



## CORE PACKAGE

**\$7,500**

First Year Cost

**\$4,500**

Recurring  
Annual Cost

### ✦ Unlimited commercial distribution

- ✦ Everything in Commercial
- ✦ Web and SaaS usage permitted
- ✦ No affiliate or subsidiary usage
- ✦ Full customization options



# Sustaining



## + Available extensions

[Visit Pricing page](#)

<div><b>BimRv SDK</b> SDK for Autodesk® Revit® files <b>\$6,250</b></div>	<div><b>BimNv SDK</b> SDK for Autodesk® Navisworks® files <b>\$6,250</b></div>	<div><b>Civil SDK</b> SDK for Autodesk® Civil 3D® files <b>\$10,000</b></div>	<div><b>Map SDK</b> SDK for Autodesk® Map 3D® files <b>\$10,000</b></div>
<div><b>Scan-to-BIM</b> ODA is developing the industry's first Scan-to-BIM SDK <b>\$20,000</b></div>	<div><b>Mechanical SDK</b> SDK for Autodesk® Mechanical® files <b>\$12,500</b></div>	<div><b>MCAD SDK</b> Converter for CATIA, Inventor, SolidEdge, Parasolid, Solid Works and more <b>\$30,000</b></div>	



# Founding

⊕ Source code



[Visit Pricing page](#) ↗



## CORE PACKAGE

**\$37,500**

First Year Cost

**\$18,000**

Recurring  
Annual Cost

- ✦ **Full source code** for all products
- ✦ Everything in Sustaining
- ✦ Direct access to ODA Git repositories
- ✦ Voting rights for ODA business decisions
- ✦ Contact us for affiliate/subsidiary licensing



# Founding



## + Available extensions

[Visit Pricing page](#)

### **BimRv** SDK

SDK for Autodesk® Revit® files

**\$12,500**

### **BimNv** SDK

SDK for Autodesk® Navisworks® files

**\$12,500**

### **Civil** SDK

SDK for Autodesk® Civil 3D® files

**\$10,000**

### **Map** SDK

SDK for Autodesk® Map 3D® files

**\$10,000**

### **Scan-to-BIM**

ODA is developing the industry's first Scan-to-BIM SDK

**\$20,000**

### **Mechanical** SDK

SDK for Autodesk® Mechanical® files

**\$12,500**

### **MCAD** SDK

Converter for CATIA, Inventor, SolidEdge, Parasolid, Solid Works and more

**\$30,000**



**SELECT  
FORMATS**  
& functionalities

**CALCULATE**  
Membership Plan





# Founding Membership benefits



[Visit Source code page](#) 



**Full source code  
for all product**



**Direct access  
to ODA Git repositories**



**Long-term  
security**



**Influence  
In ODA priorities**



**BEYOND**



# ODA Consulting Services



[Visit Consulting Services page](#)



Dedicated  
training



Proof  
of concept



ODA-based  
Software  
development



Other tasks

Available to Sustaining  
and higher

**\$150**

Per hour

**400 max.**

Consulting hours  
per member / per year

✦ Work to be directed  
by member company



# ODA Viewers



## Open IFC Viewer



Innovative IFC viewer

First to support new IFC versions & experimental IFC features from bSI

## Open STEP Viewer



Professional-grade STEP viewer



# Follow us!



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Youtube



LinkedIn



X



# Thank you!

## Questions?



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in [Neil Peterson](#)

☎ +1 321-301-5744

💬 NeilPeterson