New way to design buildings via next generation BIM
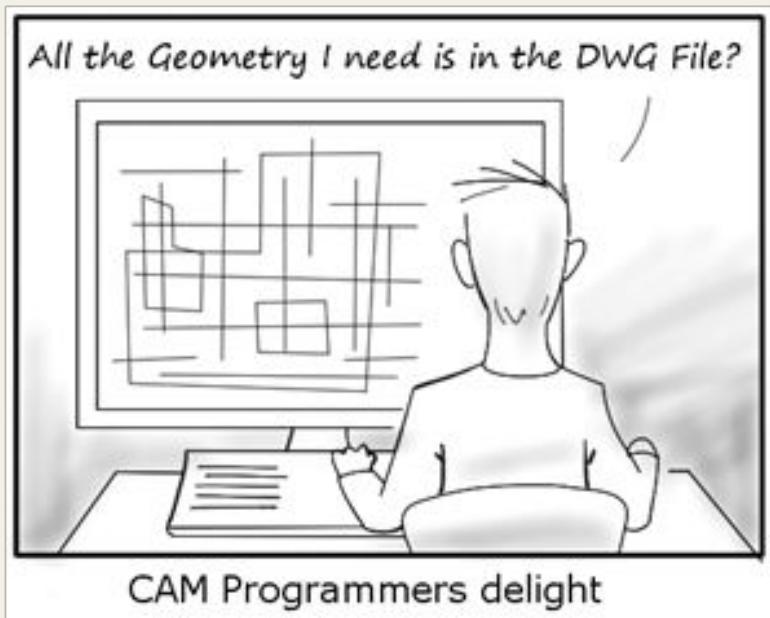
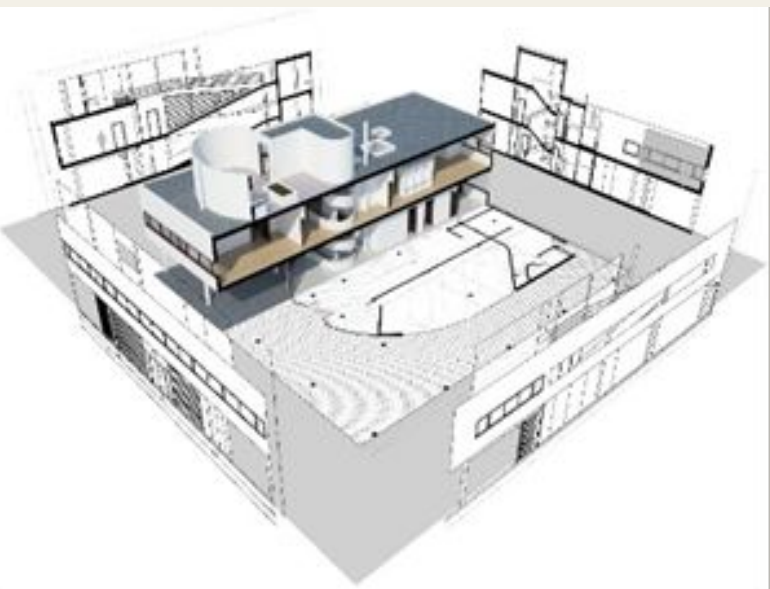## Anssi Auvinen/aecmaster

8.5.2023
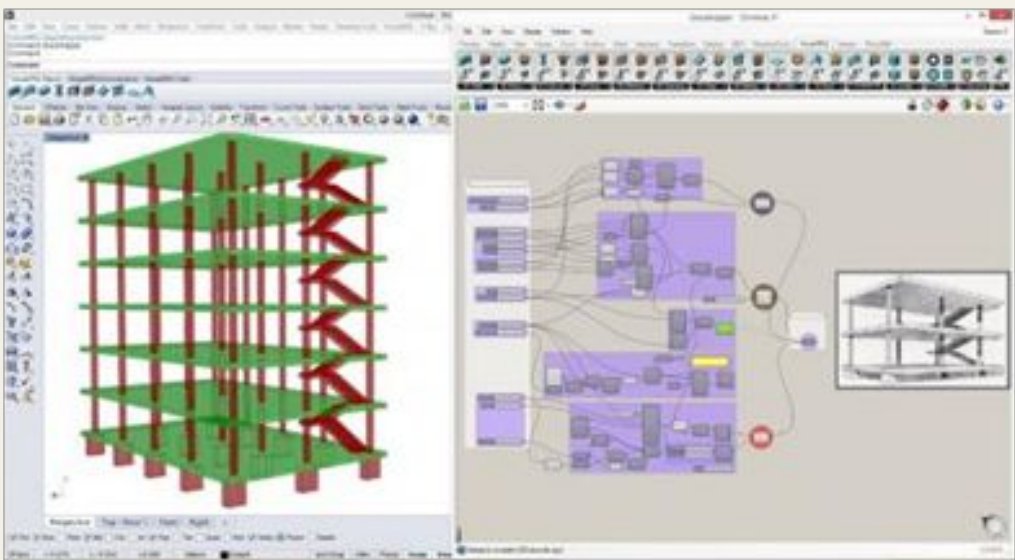
aecmaster

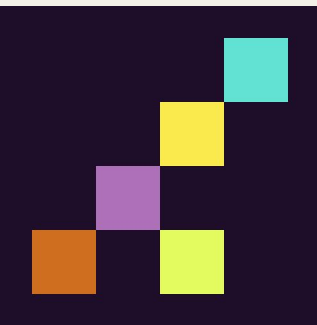# Evolution of Building Design
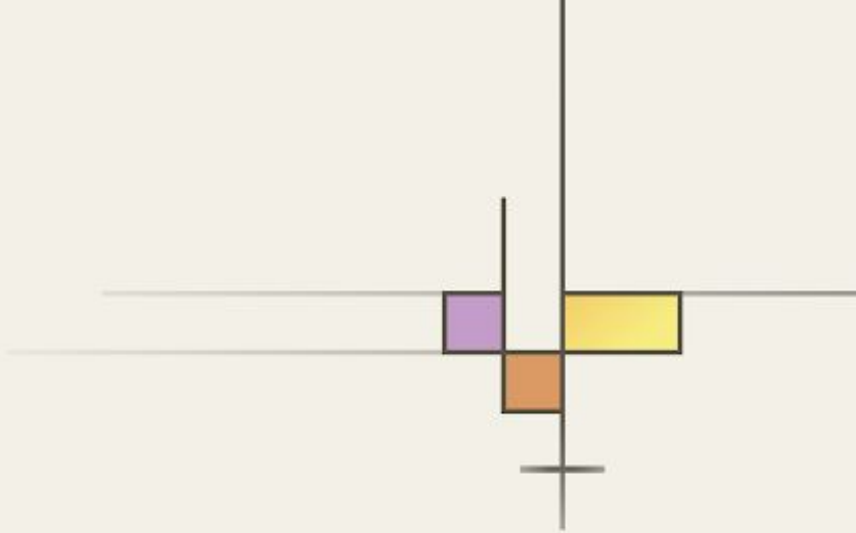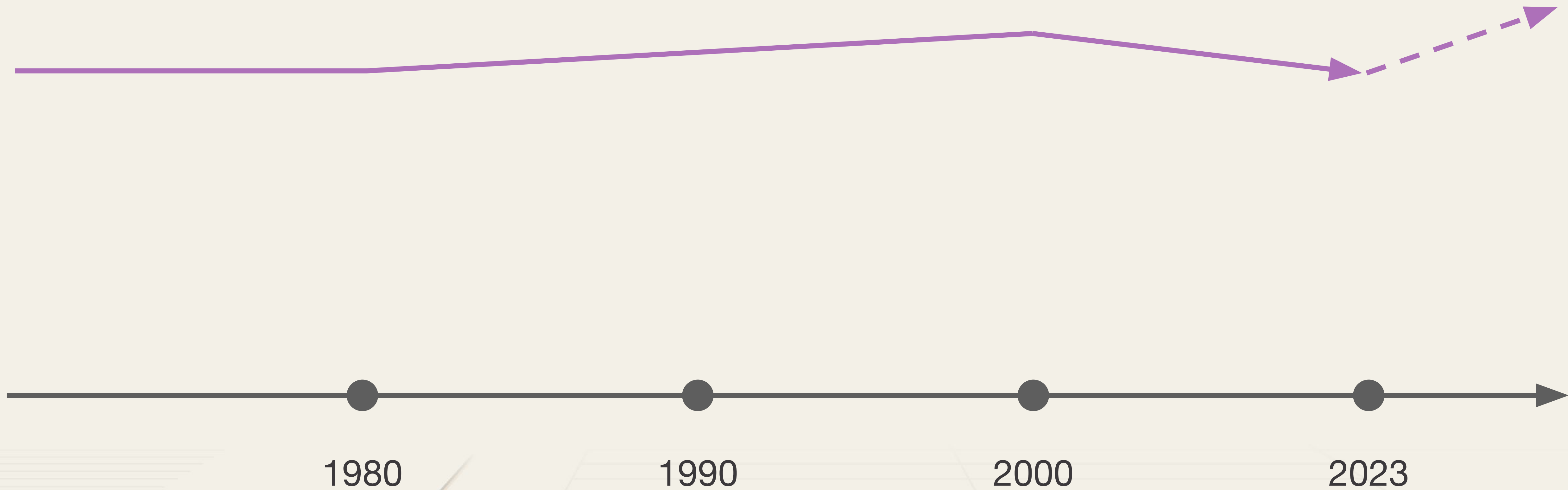

Hand Drawing

2D Drawing

3D Model

BIM

Next gen BIM

1980

1990

2000

2023

Building Industry's Productivity "Growth"

1980   1990   2000   2023
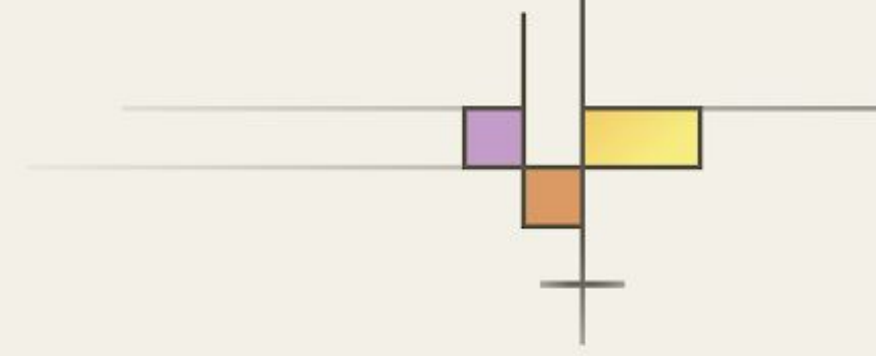
Problem x Solution
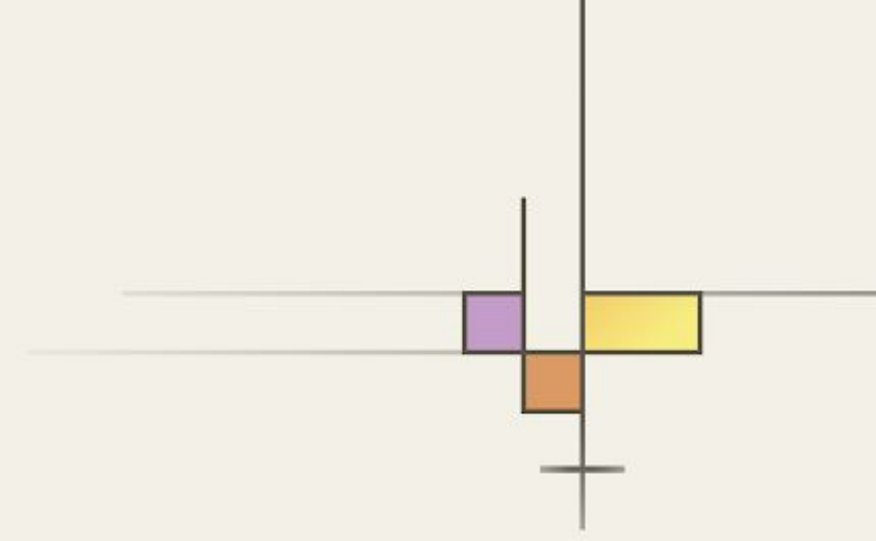
Problem:

Current workflow is too complex and real digitalization is missing.
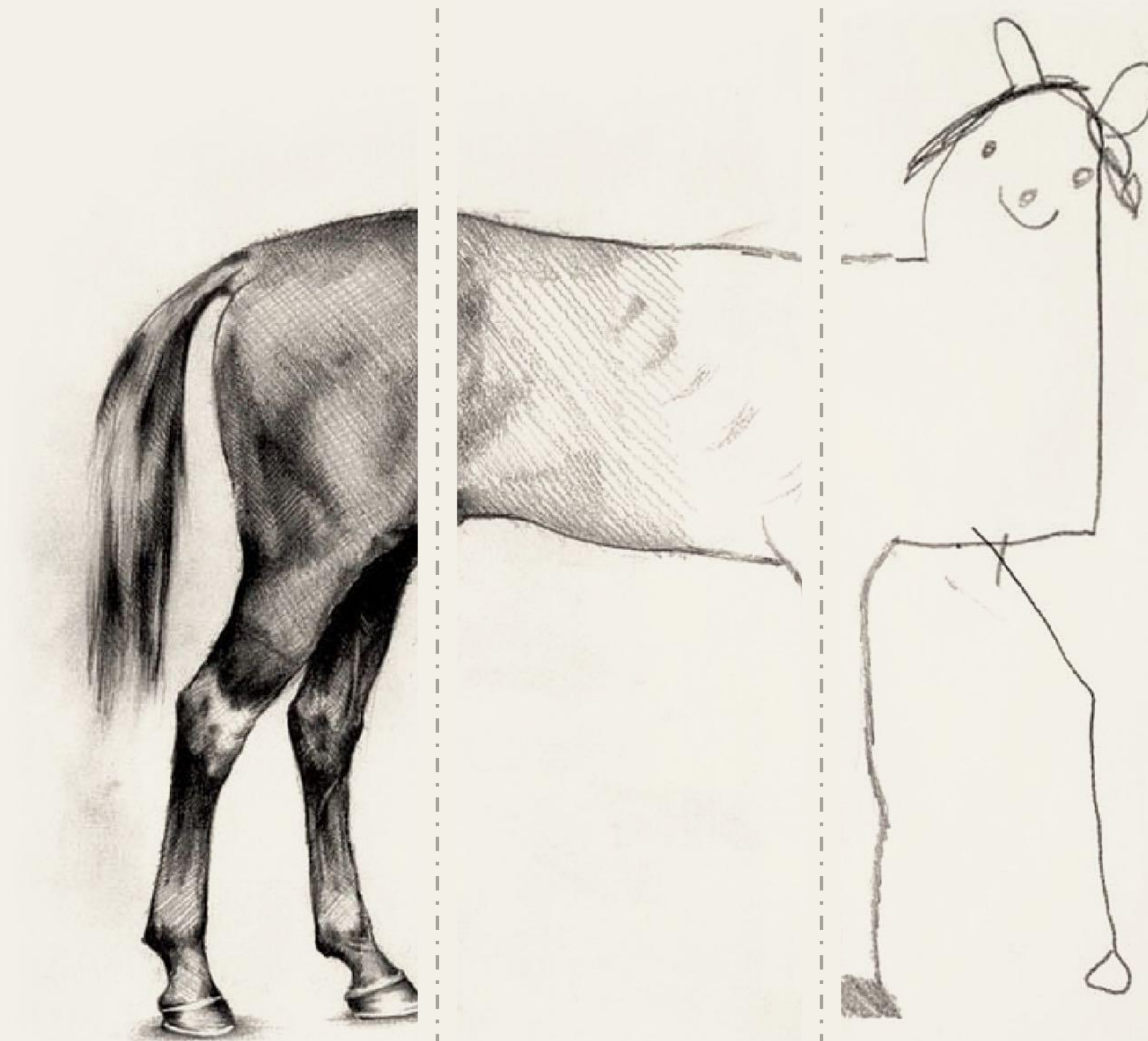
| BIM post on LinkedIn | Management slide show | How it looks like to designers |

Solutions:

BIM model as data, no files and automatically as a service

aecmaster software
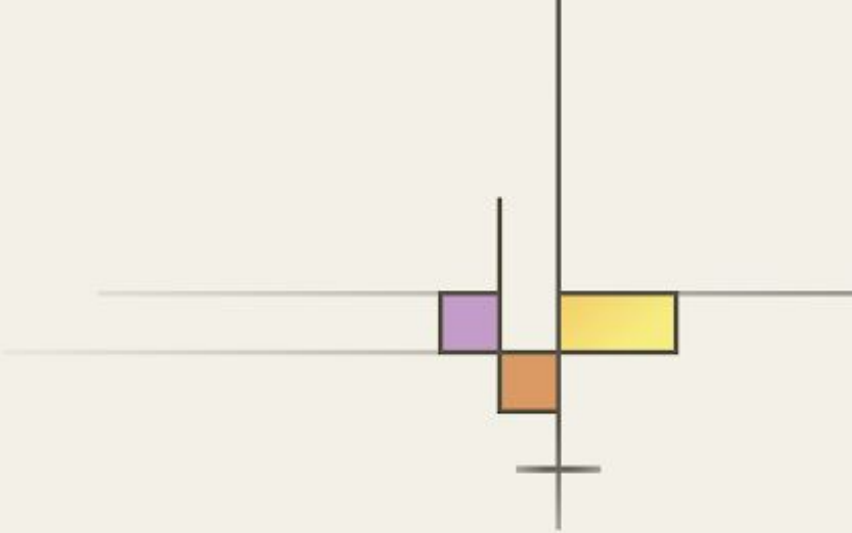
Plugins

GRAPHISOFT
Archicad®

Tekla®

Revit

Release dates for Tekla and Revit plugins to be announced later

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Account Management and Support

Projects and Services

Situational Dashboard

Exporters

API

IFC/BIM-Based Permit

Other File Formats

Cloud-Based Machine Readable Building Models (as Data)

Use case example: BIM-based Building Permit

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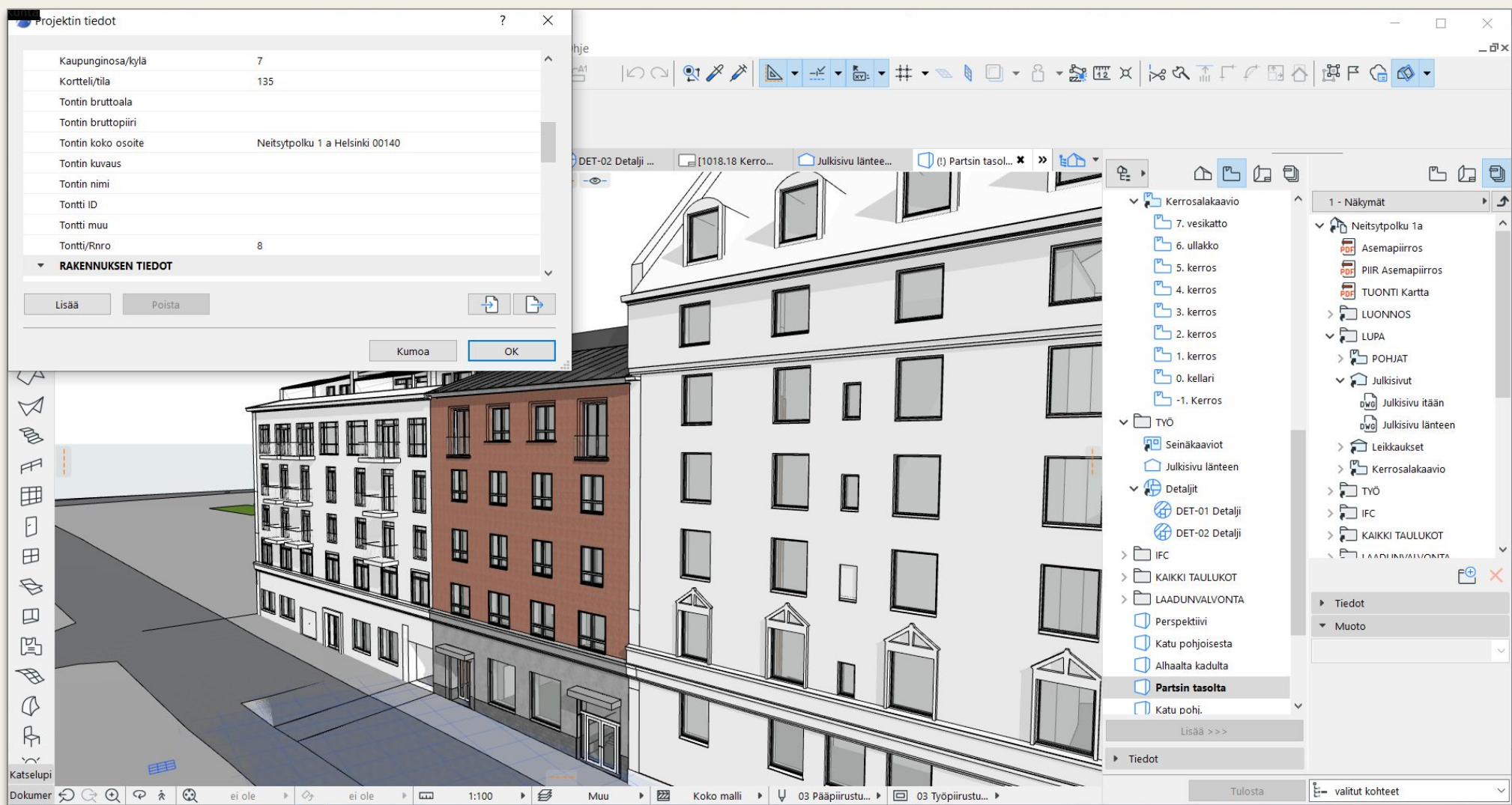# BIM-based Building Permit

NEW PROJECT

Address: Neitsytpolku 1a

Facade material: Brick

Planning Phase: City Plan

BUILDING PERMIT IN ONE MINUTE!

```
#124=
IFCPROJECT('2P_dnBA0XDnfVxeURtybUj',#42
,'Project Informations',$,$,'Project
Informations','Project Informations',(#115),#110);
#135= IFCPOSTALADDRESS(Neitsytpolku
1a);
#139=
IFCBUILDING('2P_dnBA0XDnfVxeURtybUi',#42
,'Hein\X2\00E4\X0\h\X2\00E4\X0\nt\X2\00E4\X0\
',$,$,#33,$,'Hein\X2\00E4\X0\h\X2\00E4\X0\nt\X
2\00E4\X0\', ,ELEMENT.,$,$,#135);
#149= IFCCARTESIANPOINT((0.,0.,48700.));
#151= IFCAXIS2PLACEMENT3D(#149,$,$);
#152= IFCLOCALPLACEMENT(#33,#151);
#154=
IFCBUILDINGSTOREY('2P_dnBA0XDnfVxeUO
83z1j',#42,'0 Perustus',$,'Level:Kerrostaso
(Project Base Point)',#152,$,'0
Perustus', ,ELEMENT.,48700.);
#156= IFCCARTESIANPOINT((0.,0.,49900.));
#158= IFCAXIS2PLACEMENT3D(#156,$,$);
#159= IFCLOCALPLACEMENT(#33,#158);
```

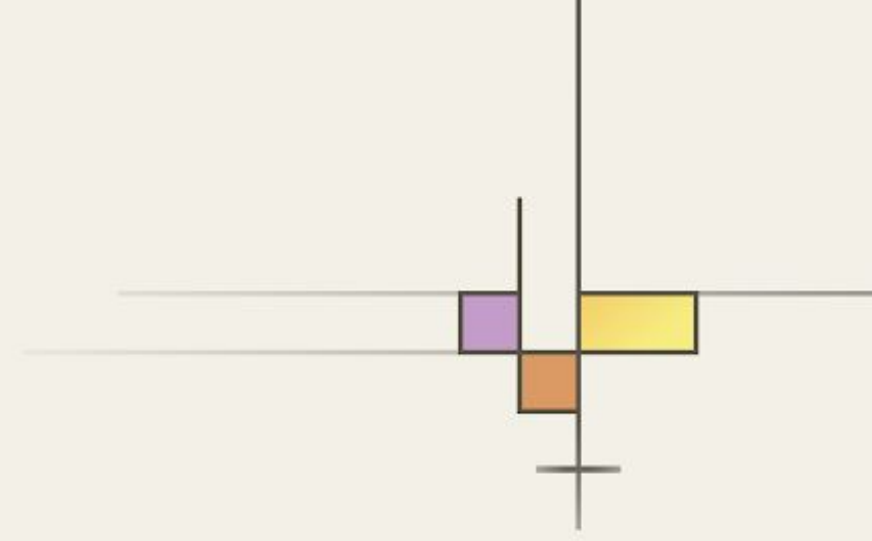**Digital permit portal's automatic form filling and checking**

Submission of pre-checked BIM file

Central metadata correction and filling

Validation of BIM file according to authority's requirements (RAVA ICF4)

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Current Status and Call-to-Action

Current status:

Next generation BIM technology ready for piloting
Commercial launch by end of 2023

Call-to-action:

Welcoming interested investors to join funding round to support sales and internationalization

Looking for pilot customers and projects, Archicad user can "jump the queue"

Come to talk more at our stand!

Want to learn more?

Visit www.aecmaster.com or
send email to anssi@aecmaster.com

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