

HARNESSING TECHNOLOGY

CORENET X Industry Seminar – CIAP ARCHITECT'S JOURNEY



CORENET X Was More Than a Software Change

it required a broader shift in how regulatory information is prepared, coordinated, reviewed, and submitted.

1

Knowledge

Understanding new Gateways, Code of Practice, IFC+SG, and submission requirements.

2

Capability

Building skills to prepare, map, export, and and validate IFC+SG models.

3

Process

Defining roles and responsibilities and how to collaborate as a team

4

Visibility

Reviewing regulatory information embedded as structured model data, not just drawings.

CORENET X did not just change our submission format.

It changed how regulatory information had to be managed within the project team.

Building Capability Before Building Automation

1

CORENET X Taskforce

Established an internal taskforce to lead implementation and translate requirements into office processes.

2

External Support & Mentorship

Engaged external support to understand the new regulatory and IFC+SG landscape.

3

Capability Building & Training

Training for both Architects and Technical teams.

4

Pilot Project

Tested the process in a live project to identify gaps and refine responsibilities.

5

Process Development

Began developing internal workflows and standards from pilot learnings.

We didn't start by automating CORENET X. We started by understanding it.

Turning Project Learning into an Office Standard

Manuals & Guides

CIAP IFC+SG Guidebook , Office Adopted Industry Mapping File,
CORENET X Onboarding Checklist

Templates

Revit Template with IFC+SG Shared Parameters, Schedules,
IFC JSON Export Template

Tools

3rd Party Applications and Plug Ins, In-house Scripts

Process & Onboarding

Submission Portal workflow , Roles & responsibilities ,
IFC+SG mapping workflow , Review and validation process



3.1 SUBMISSION WORKFLOW OVERVIEW

The submission workflow typically comprises the following stages:

Step	Task	Action Party	Remarks/Reference
1	Understand the Corenet X Code of Practice requirements and populate the Office Adopted Industry Mapping Excel file where applicable	Architect	
2	Prepare Micro Gateway Submission Schedule outlining authority submission and responsibility split	Architect	
3	Setting up the Revit model	Technical	Refer to Section 4.1
4	Geo-referencing and Toposolid	Technical	Refer to Section 4.2
5	Model preparation and coordination	Technical	Refer to Section 4.3
6	IFC+SG parameter mapping	Technical	Refer to Section 4.4
7	IFC+SG parameter review via DiRoots and supporting drawings where applicable	Architect	Refer to Section 4.4
8	IFC export	Technical	Refer to Section 4.5
9	IFC model validation check via BuiltSearchIV	Technical	Refer to Section 4.6
10	Repeat Steps 5-9	All	Refer to Section 4.7
11	Submission via Corenet X portal	All	Refer to Section 4.8

External capability building gave us the foundation. Internal standardization made that capability scalable.

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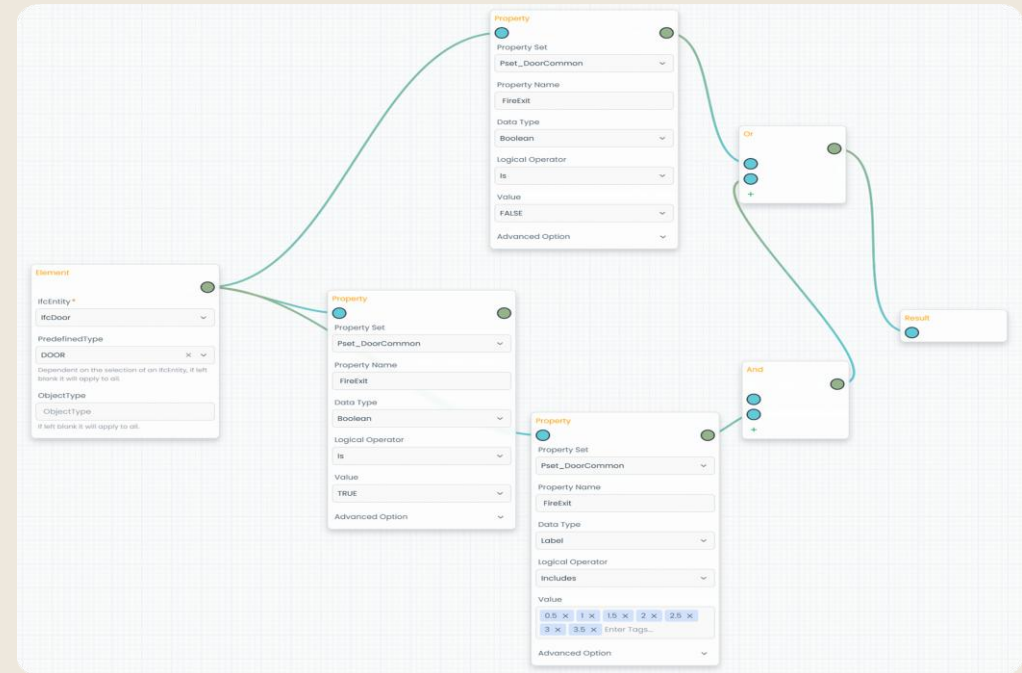
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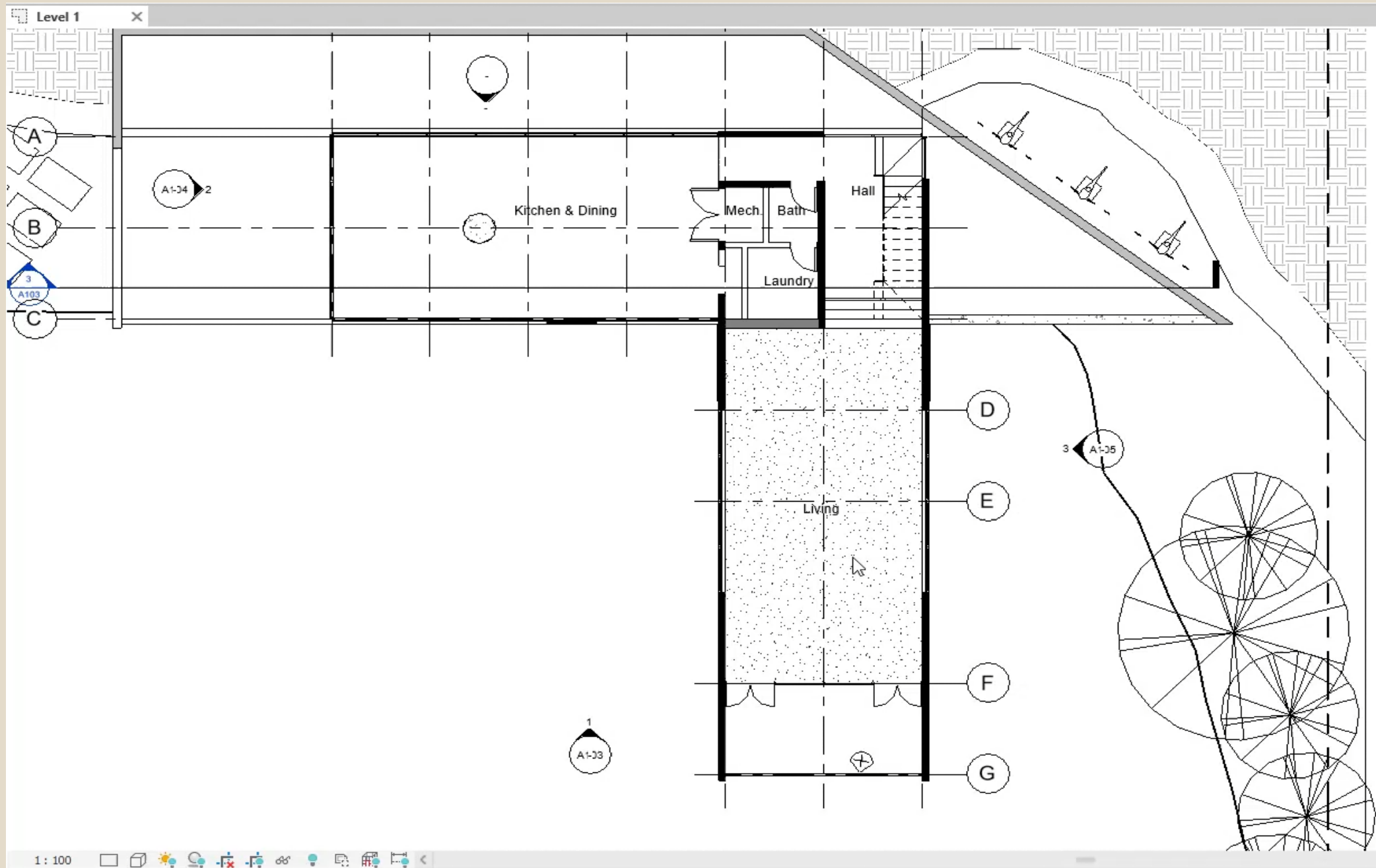


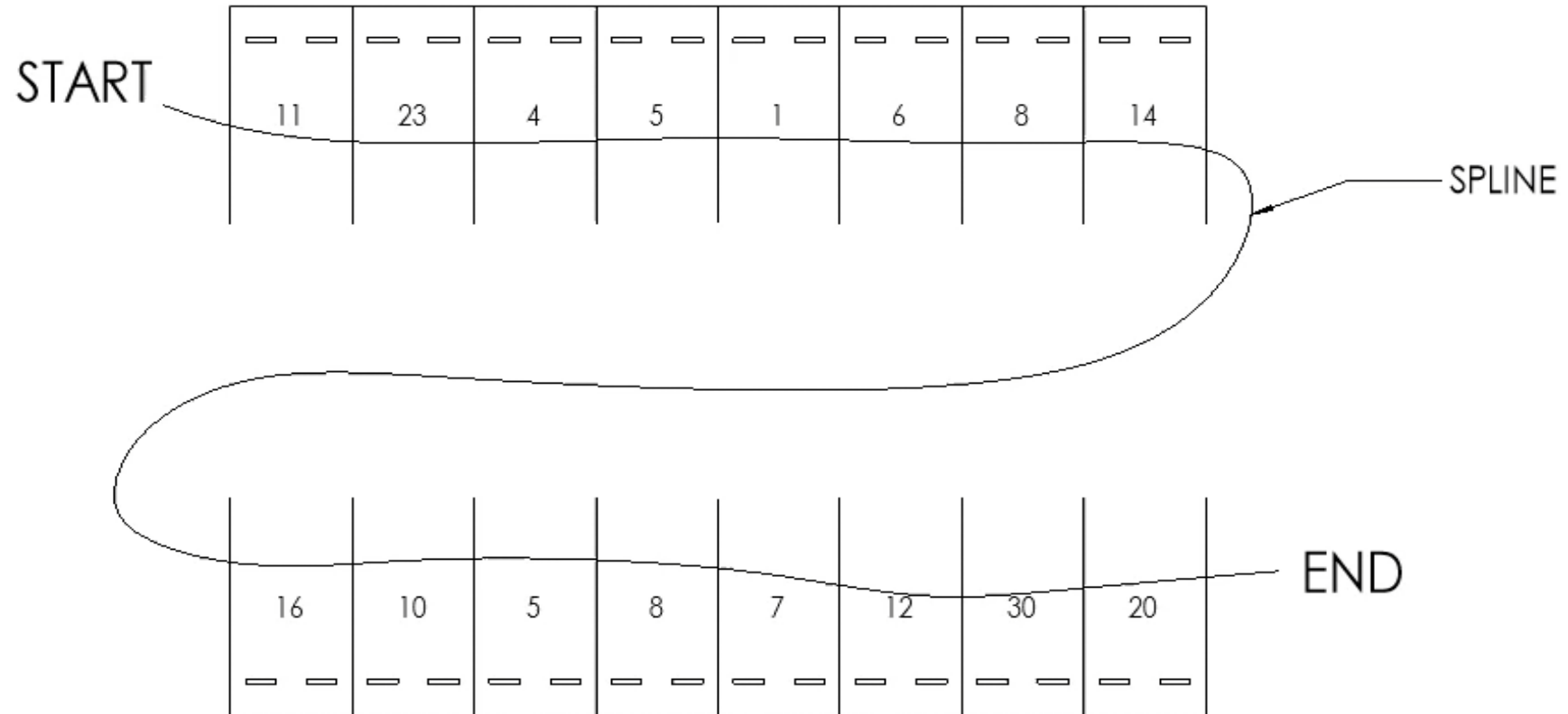
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Every Live Project Revealed the Next Improvement



Every automation came from a problem encountered on a real project.





SheetLink

PanelLink

TableGen

OneParameter

SheetGen

View Manager

QuickViews

View Aligner

FamilyReviser

ParaManager

OneFilter

Selections Manager

ReOrdering

Section Boxer

Select Points

Export

Import DXF File

Point Cloud

Data IO

Views and Sheets

Manage

Find

Utility

Modify Schedule/Quantities

New

Delete

Project Browser - 2368_PSA-DOR...

IFC_URA_AGF_AVF (GFA)

Search

Views (all)

Legends

Schedules/Quantities (all)

Sheets (Sheet Folder)

Families

Groups

Revit Links

<IFC_URA_AGF_AVF (GFA)>

A	B	C	D	E	F	G	H	I	J	K	L	
Level	Name	Export to IFC As	IFC Predefined Type	IfcObjectType	Area	AGF_Name	AGF_Note	AGF_Developme	AGF_UnitNumber	AGF_BonusGFAType	AGF_UseQuantum	AG
1ST STOREY	STAIRCASE A-ST01				19.80 m²							
1ST STOREY	SECURITY CHECK POINT				207.49 m²							
1ST STOREY	TRANSFORMER ROOM				100.50 m²							
1ST STOREY	BIN CENTRE				64.48 m²							
1ST STOREY	VOID DECK				28.23 m²							
1ST STOREY	CE ROOM				18.93 m²							
1ST STOREY	DB ROOM				21.81 m²							
1ST STOREY	FIRE LIFT LOBBY				26.34 m²							
1ST STOREY	LIFTS				28.44 m²							
1ST STOREY	STAIRCASE B-ST08				19.44 m²							
1ST STOREY	TEL				1.65 m²							
1ST STOREY	ELEC				2.13 m²							
1ST STOREY	ENSUITE TOILET				16.87 m²							
1ST STOREY	MAIL ROOM				7.46 m²							
1ST STOREY	LIVING AREA				17.46 m²							
1ST STOREY	SLEEPING QUARTERS				12.84 m²							
1ST STOREY	COMM				1.65 m²							
1ST STOREY	ELV				0.73 m²							
1ST STOREY	SAN				0.51 m²							
1ST STOREY	SAN				0.54 m²							
1ST STOREY	VOID DECK				16.07 m²							
1ST STOREY	STAIRCASE B-ST09				18.90 m²							
1ST STOREY	ELEC				1.97 m²							
1ST STOREY	HR				1.29 m²							
1ST STOREY	REFUSE CHUTE				1.77 m²							
1ST STOREY	COMMON TOILET				17.73 m²							
1ST STOREY	COMMON LAUNDRY				16.70 m²							
1ST STOREY	STORE ROOM (ENID)				50.55 m²							
1ST STOREY	SAN				0.52 m²							
1ST STOREY	SAN				1.74 m²							
1ST STOREY	SAN				2.38 m²							
1ST STOREY	VOID DECK				6.86 m²							
1ST STOREY	DOMESTIC PUMP ROOM				22.60 m²							
1ST STOREY	STORE ROOM				19.87 m²							
1ST STOREY	SPRINKLER TANK				39.79 m²							
1ST STOREY	ATM				2.06 m²							
1ST STOREY	HOLDING AREA				54.01 m²							
1ST STOREY	DONNING AREA				18.89 m²							
1ST STOREY	FEMALE TOILET				9.06 m²							
1ST STOREY	DORM SUPERVISOR OFF				40.07 m²							
1ST STOREY	SECURITY / AEOS ROOM				107.22 m²							
1ST STOREY	MAIL ROOM				14.23 m²							
1ST STOREY	MALE TOILET				11.11 m²							
1ST STOREY	TRAY RETURN				13.33 m²							

Properties

Schedule

Schedule: IFC_URA_AGF_AVF (GF) Edit Type

Identity Data

View Template <None>

View Name IFC_URA_AGF_AVF (GF...

Dependency Independent

Workset View "Schedule: IFC_U...

Edited by

Submission Type

IFC Parameters

Export to IFC By Type

Other

Fields Edit...

Filter Edit...

Sorting/Grouping Edit...

Formatting Edit...

Appearance Edit...

Properties help

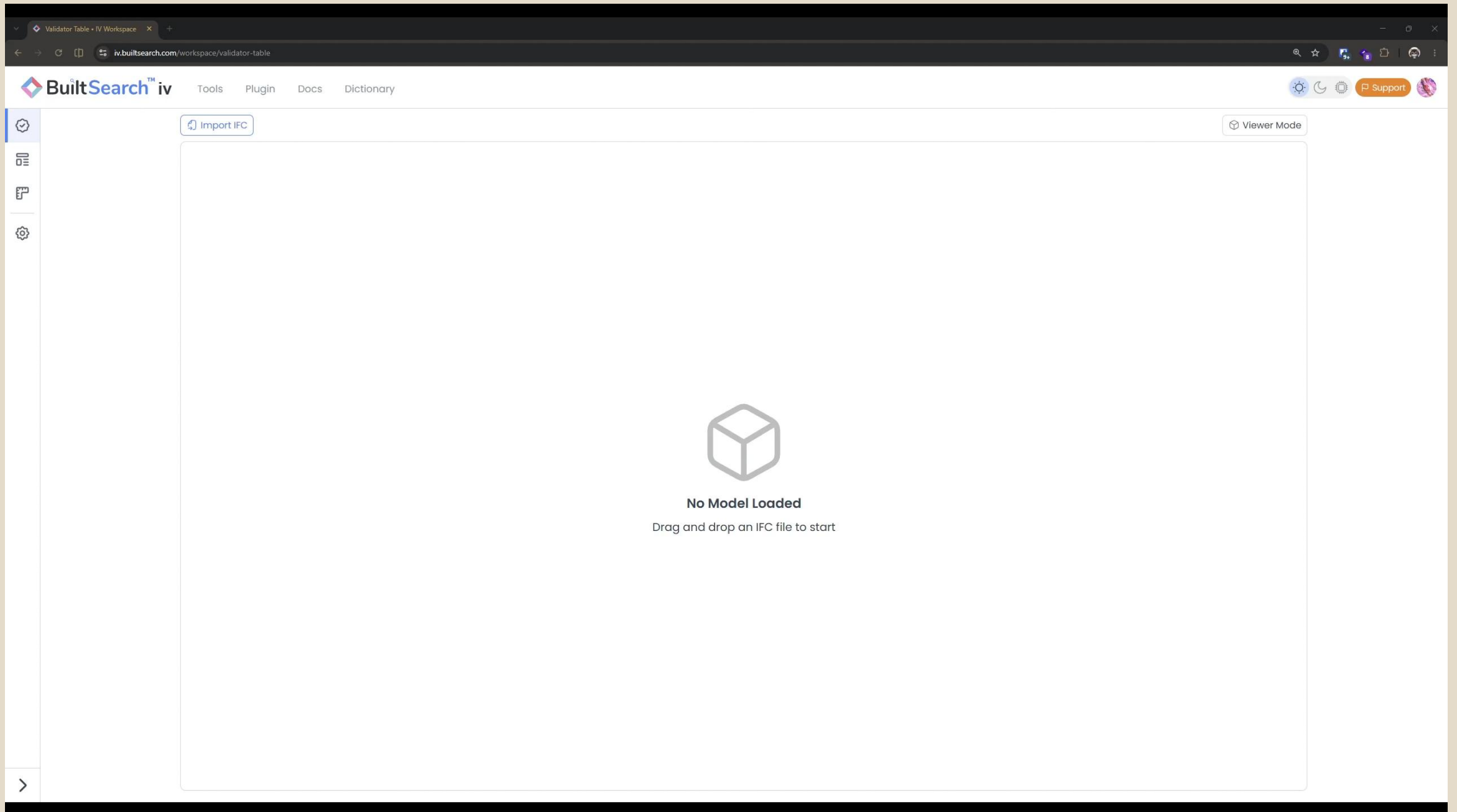
Apply

Zoom in or out using the Ctrl + mouse wheel or Ctrl + [+/-].To reset to the original zoom level (100%), press Ctrl + 0.

Workset1

Main Model

100%



The screenshot displays the 'Rule Configuration' interface in the BuiltSearch iv application. The interface is set within a browser window at `iv.builtsearch.com/workspace/rules/new-rule`. The main workspace is a large grid where rules are visualized as nodes and connections. Three nodes are currently visible: an 'Element' node, a 'Property' node, and a 'Result' node. The 'Element' node is configured with the following settings:

- IfcEntity***: Select IfcEntity
- PredefinedType**: Select PredefinedType (Note: Dependent on the selection of an IfcEntity, if left blank it will apply to all.)
- ObjectType**: ObjectType (Note: If left blank it will apply to all.)

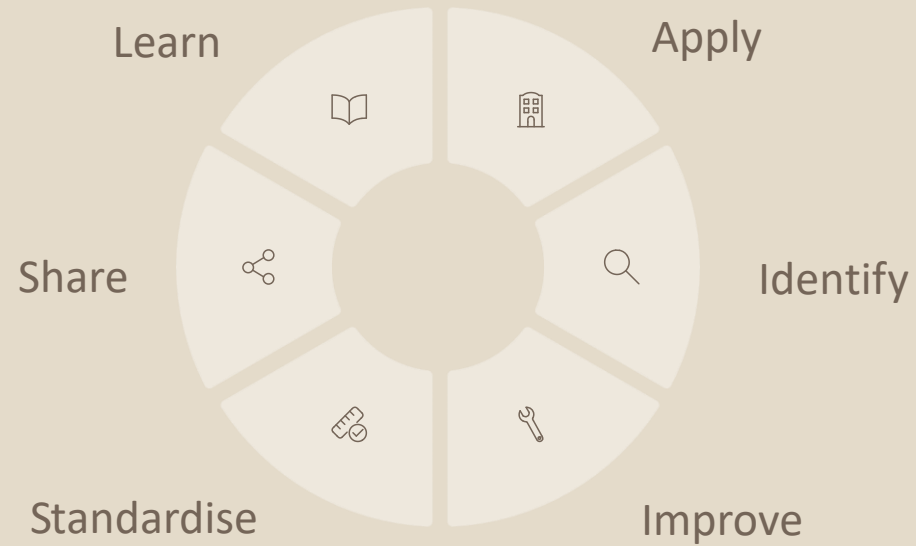
The 'Property' node is configured with the following settings:

- Property Set**: Any
- Property Name**: PropertyName
- Data Type**: Select
- Logical Operator**: Select
- Value**: Value
- Advanced Option**: (Dropdown menu)

The 'Result' node is currently empty. On the right side of the interface, a 'Rule Info' panel is open, providing details for the rule being configured:

- Rule Identification**
 - Rule Name***: Input (A title for the rule, example: "Load-Bearing Wall")
 - Description***: (Empty text area) (Generate description button)
 - Description**: A brief description of the rule, example: "The rule checks if the wall is load-bearing."
- Rule References**
 - Tags**: Enter Tags...
 - Agency**: Agency
 - Code Book**: Code Book
 - Reference**: Reference (Reference to the rule in the code book, example: C.3.2)
- Settings**
 - Visibility**: Private

Our CORENET X Journey Continues



Start with Capability, Not Software

Understand the process -
then identify where technology can add value

Pilot and Apply

Real projects reveal the gaps and
opportunities that training alone may not

Standardize and Maintain Visibility

Turn proven workflows into office standards,
automate what repeats and
keep digital compliance transparent

Treat CORENET X as Continuous Improvement
Embrace the Digital Shift