

openBIM in de praktijk

De workflow van het project via IFC



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Uitdaging | BIM proces

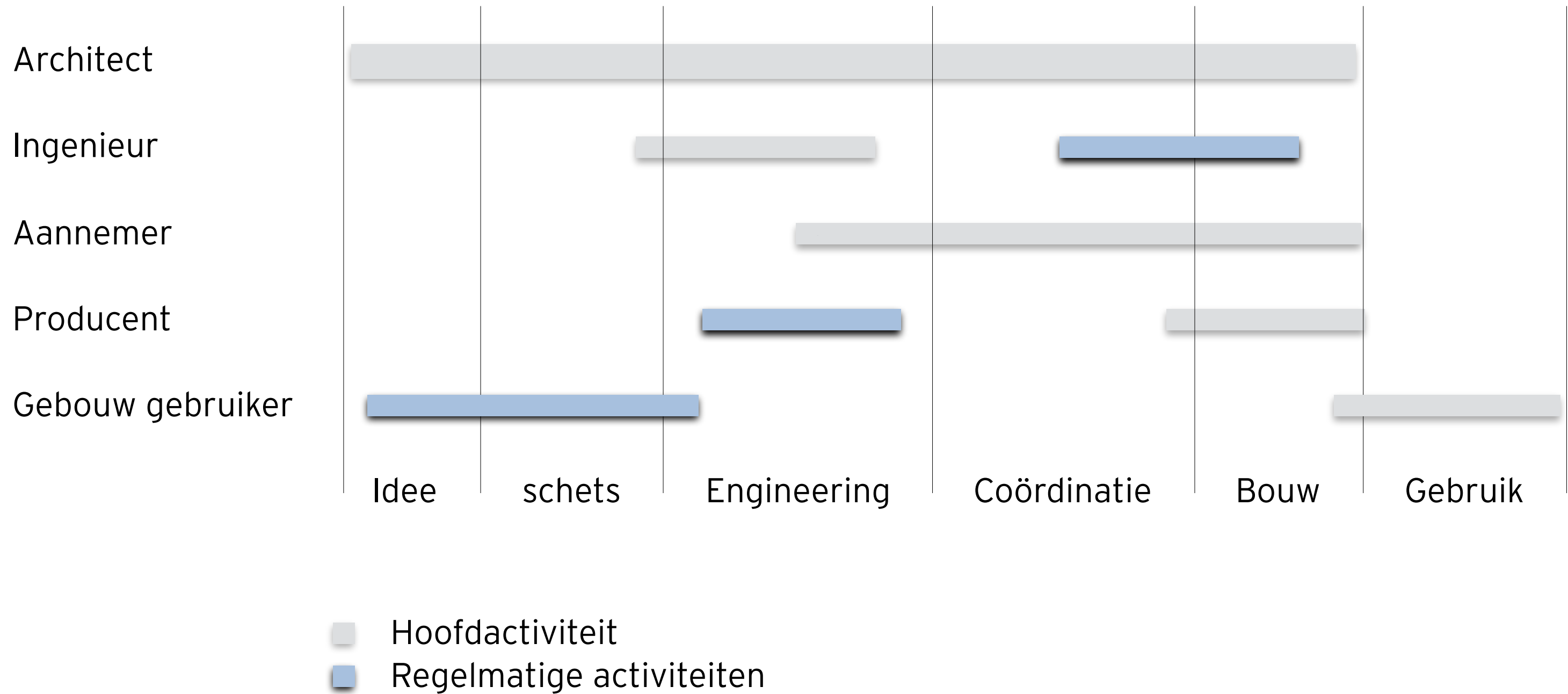
Verschillende partijen met verschillende software

- Architect → ARCHICAD
- Ingenieursbureau → Revit Structure
- Installateur → StabiCAD
- Staalfabrikant → Tekla
- Aannemer → Solibri
- EPB verslaggever → EPB software
- Toeleverancier → Wandplan (Maatwerkapplicatie)
- Gebouwbeheerder → Artra



Wie doet wat in het bouwproces

In welke fase zijn de partijen betrokken?



Gereedschap

Schetsrol

CAD/BIM

Model-checkers

Coördinatie tools

Idee

schets

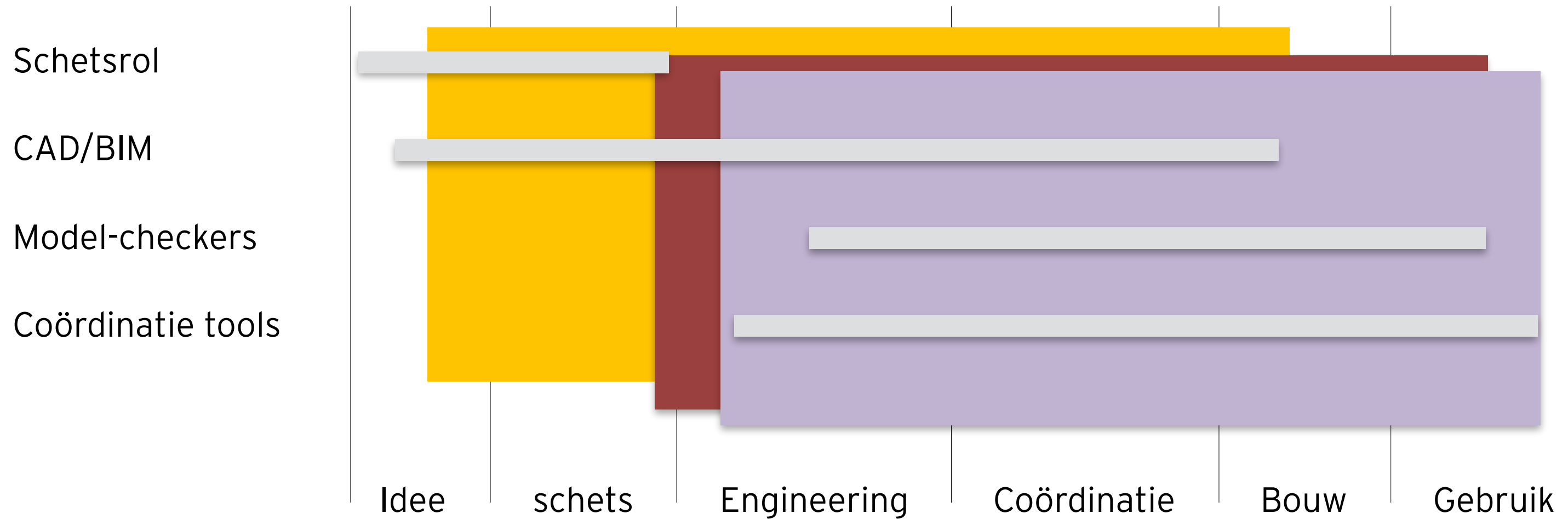
Engineering

Coördinatie

Bouw

Gebruik

Oplossingen | producten van KUBUS



Observations:

- › The synchronization interval depends on several factors such as: the preferences of the project team members, the project manager and the project phase. Users in the experiments in this research did not prefer a so-called '**live synchronization**'. The median of synchronization time of model instances was 1 week (every Friday of every week was a widely used practice).
- › In a homogeneous software environment, users felt that all team **members should have equal BIM software modeling expertise**. When using the concept of reference models, not all project team members collaborating in a project need to have the same level of BIM expertise.

**aspect models
make BIM
accessible**

And to close up....

The use of a reference model concept with IFC **can lower the needed BIM competences** for a project partner to be able to collaborate in a way that is sufficiently effective for the entire project team.

All respondents in this experiment were strongly convinced that **choosing project partners based on their competence** of a specific software tool, prior to their engineering competence, is never preferred

**partner choice
based on
competence,
not on
software**

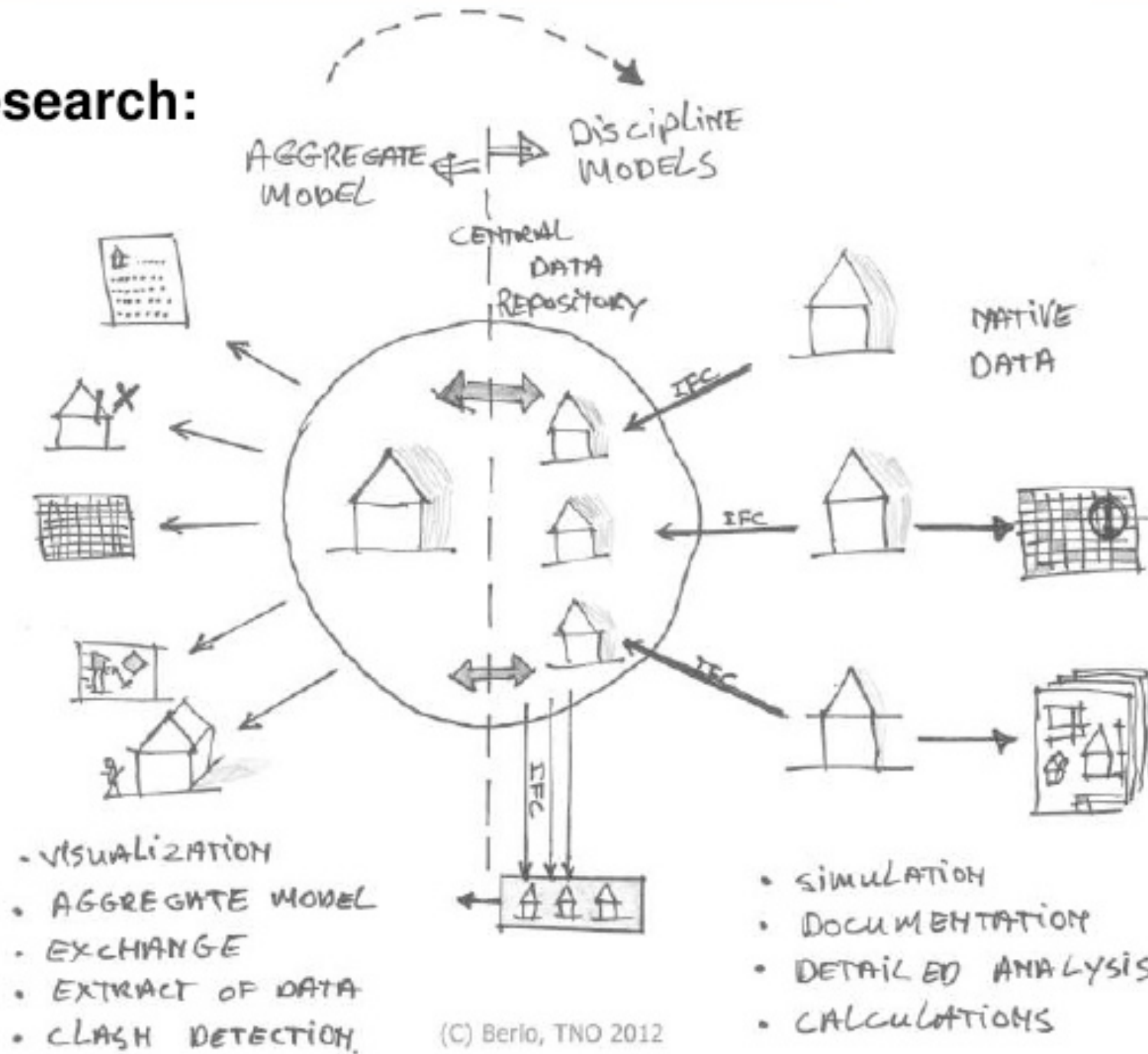
Observations:

- › “There is no loss of data using IFC”... It is all in the native software. The question is what data you want to share (using IFC). **What data do you need to do your job?** Then we look if that is in IFC (and in your tool after import)
Not a single IFC ‘loss of data’-issue occurred during the experiments!
- › The best choice model server, depends on the place in the BIM framework (‘little bim’, ‘BIG BIM’).
In many situations it seems favorable to **use a combination of** homogeneous software environment (‘little BIM’) and plural software environment (‘BIG BIM’) in a multidisciplinary collaboration project.

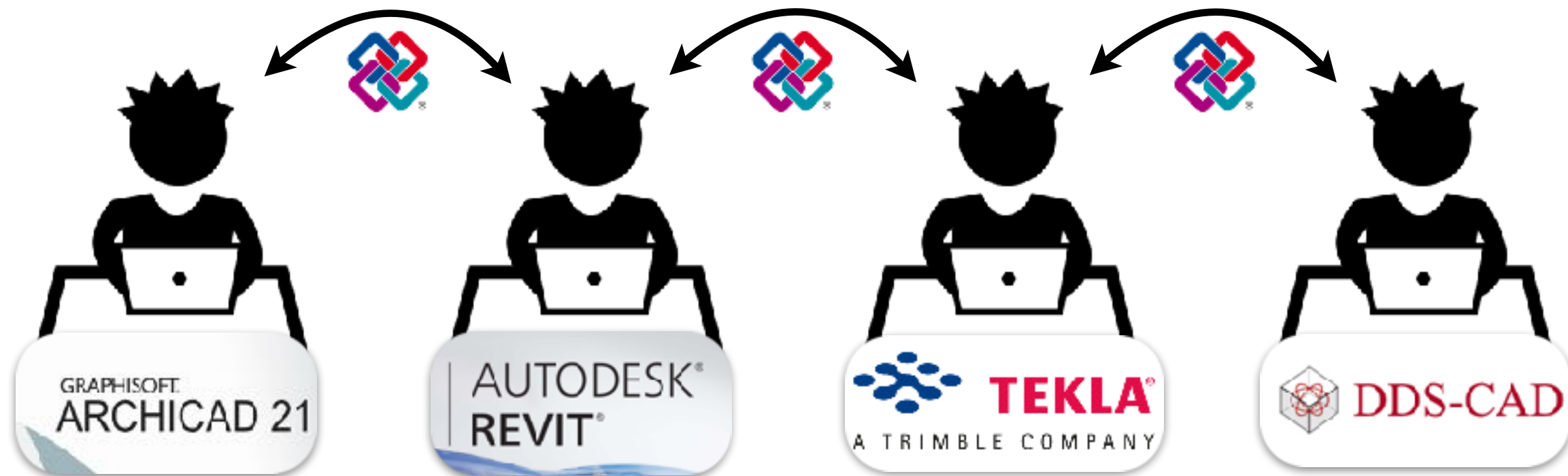
**No data loss
using IFC**

**software
independant**

Our research:

aspect
models

OPEN BIM™



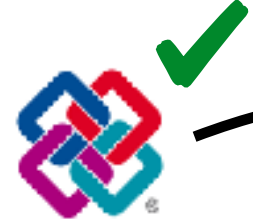
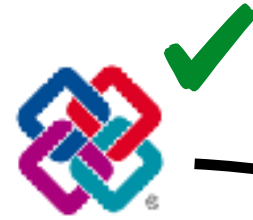
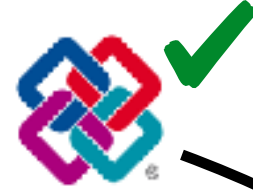


Model Controle

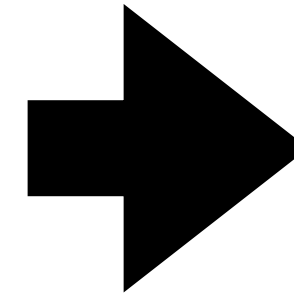
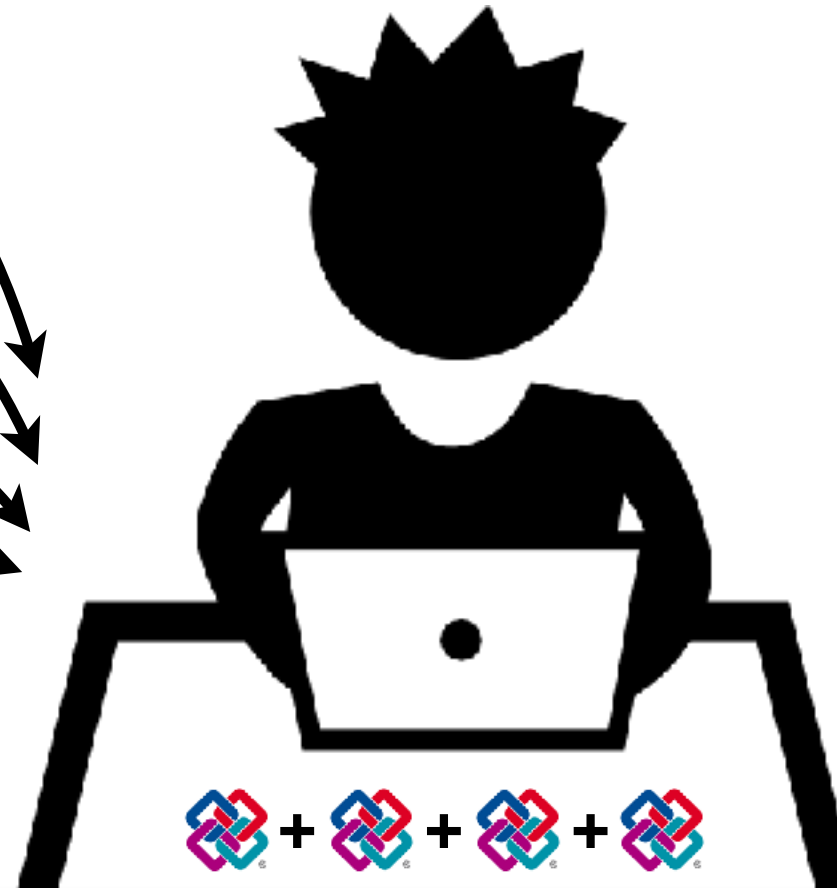


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Modellen Combinieren



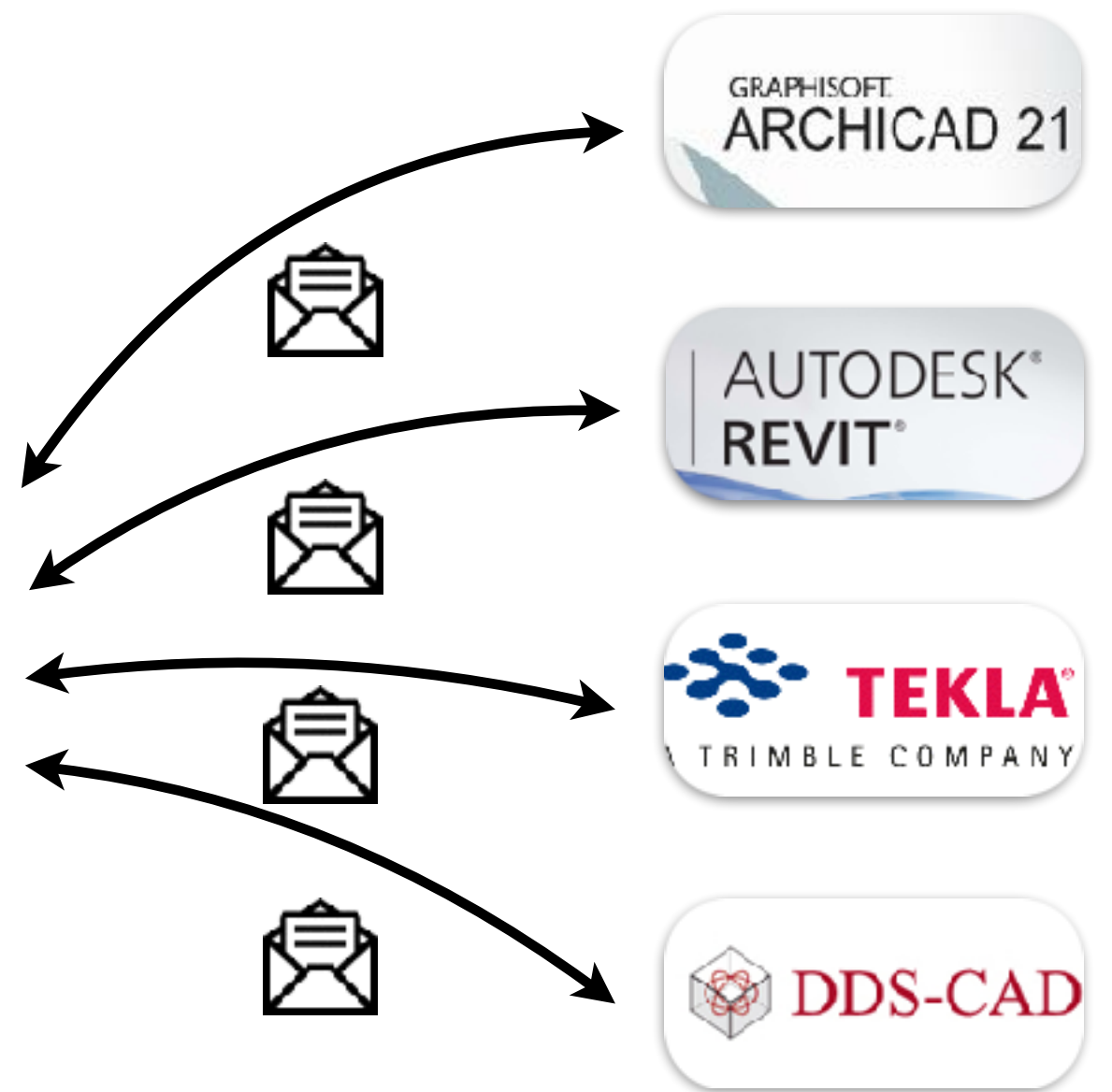
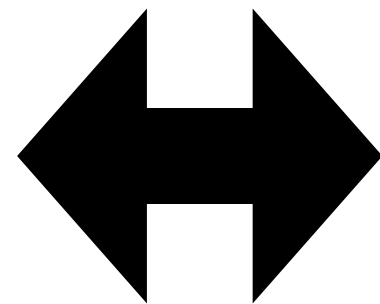
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Modellen Controleren

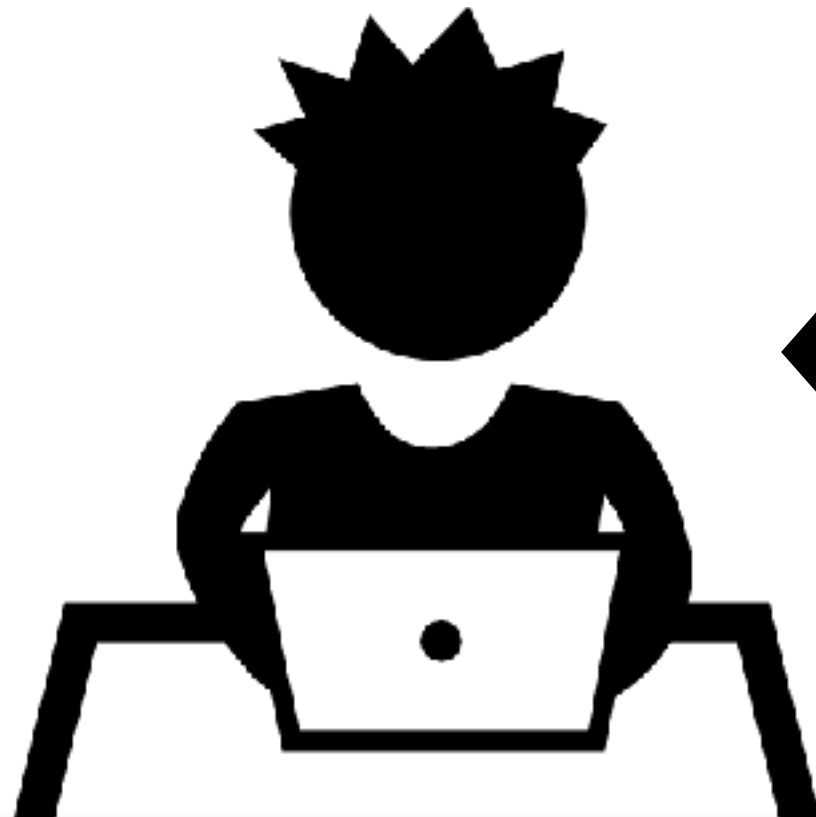


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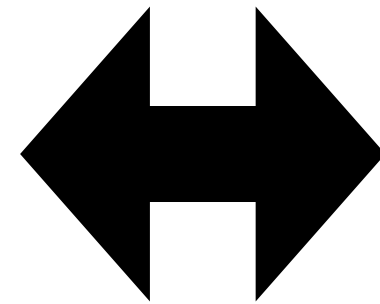


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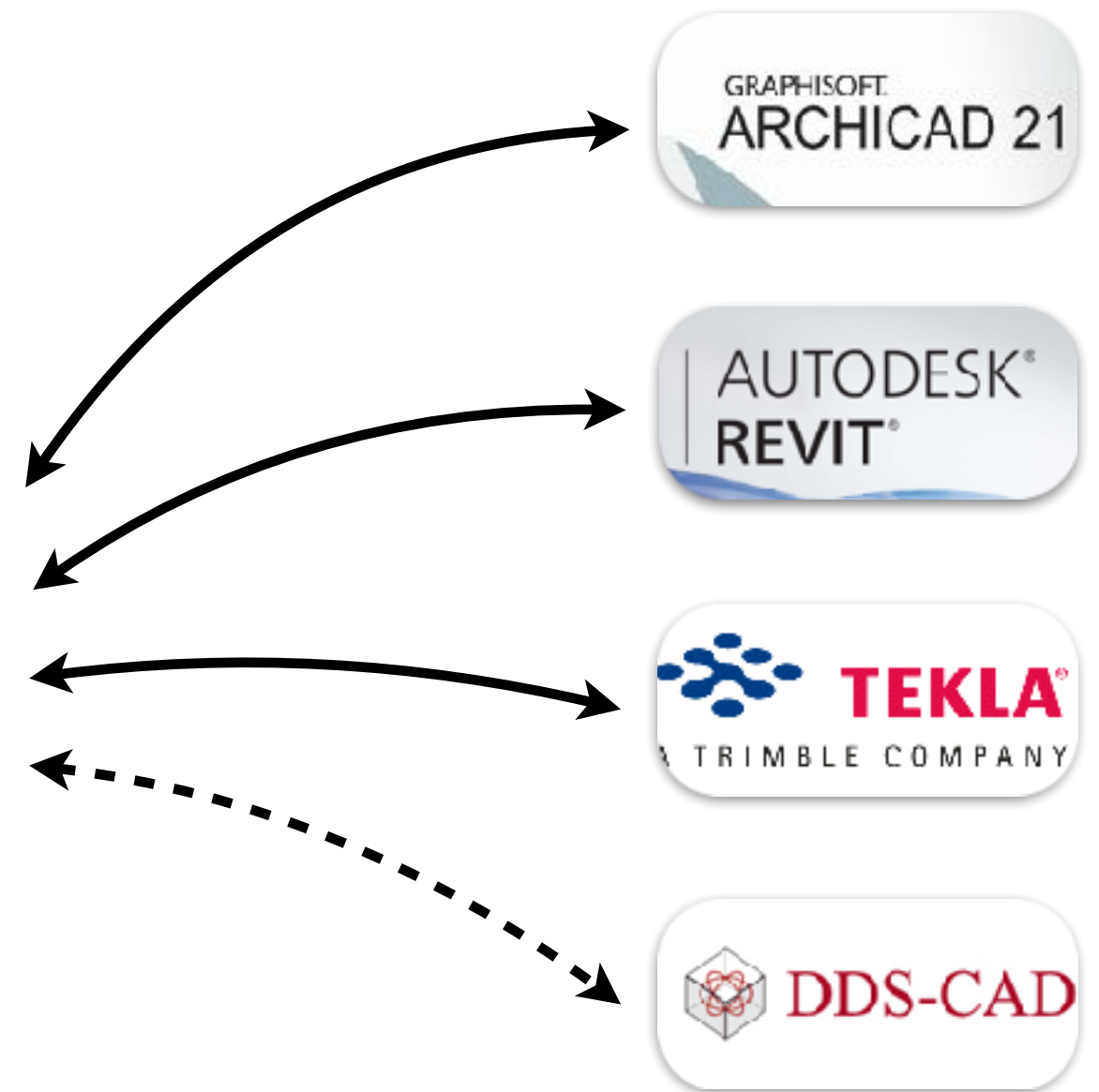
Modellen Controleren



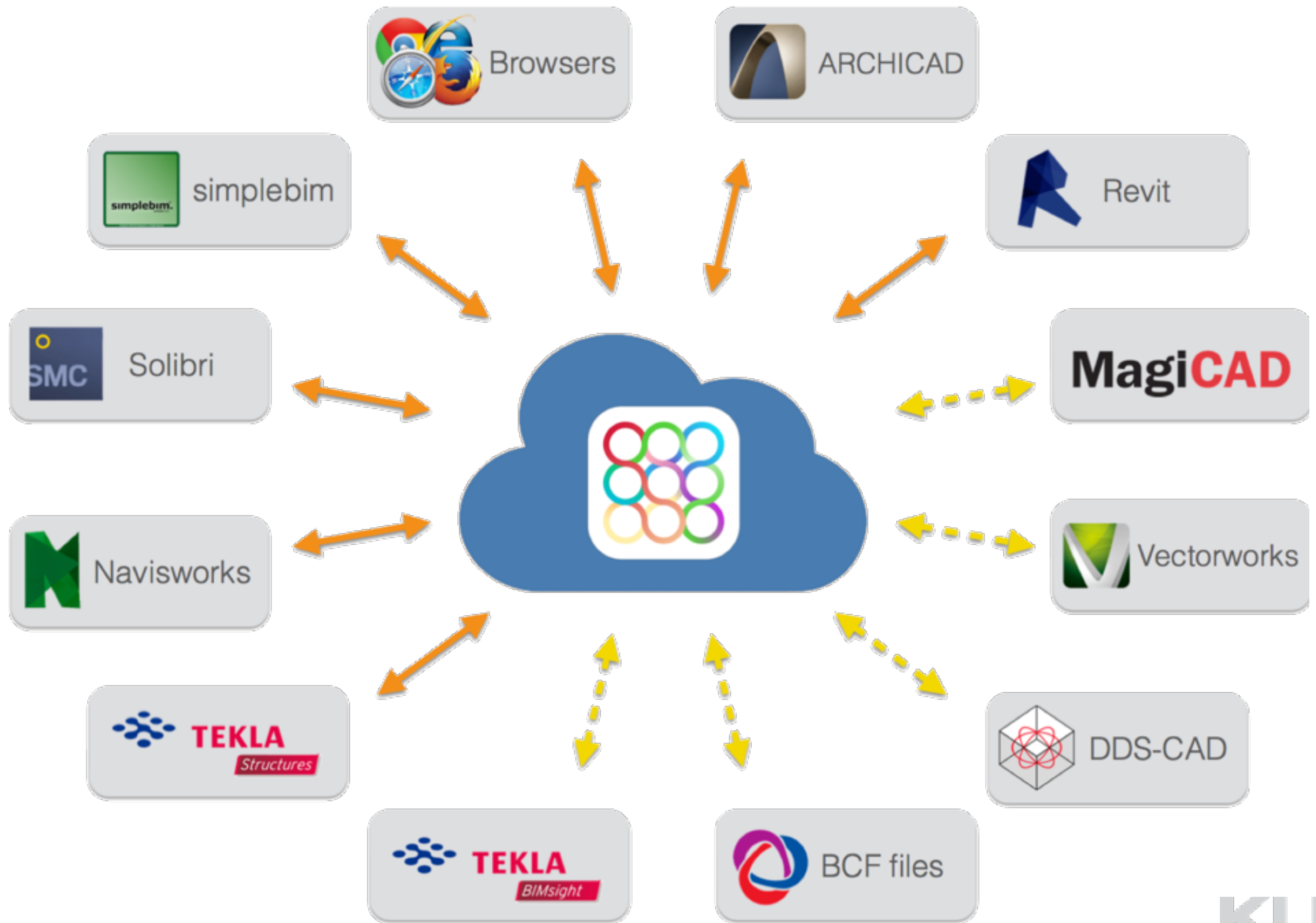
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1. WAAROM GAAN WE INFORMATIE EENDUIDIG UITWISSELEN?

Om informatie efficiënter en effectiever te borgen en hergebruiken.

2. HOE GAAN WE INFORMATIE EENDUIDIG UITWISSELEN?

Op basis van kennis en ervaringen uit de praktijk is naar voren gekomen dat er een grote gemeenschappelijke deler is. Er wordt niets nieuws ontwikkeld, maar er wordt gebruik gemaakt van bestaande structuren, gebaseerd op openBIM IFC.

3. WELKE STRUCTUUR GAAN WE HANTEREN?

Onderstaande afspraken dragen eraan bij dat iedere betrokken partij altijd de juiste informatie op de juiste plek kan vinden en zelf kan aanleveren.

4. HOE BORGEN WE ANDERE/TOEKOMSTIGE OBJECTINFORMATIE?

Objectinformatie wordt geborgd in de juiste property's en propertysets zoals die in IFC zijn gedefinieerd.

DEMO

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TIP's



Stappenplan voor de implementatie van BIM

<http://www.wtcb.be/homepage/index.cfm?cat=publications&sub=bbri-contact&pag=Contact55&art=839>



Volg onze cursus **openBIM**

- Eindhoven - vrijdag 24 november 2017