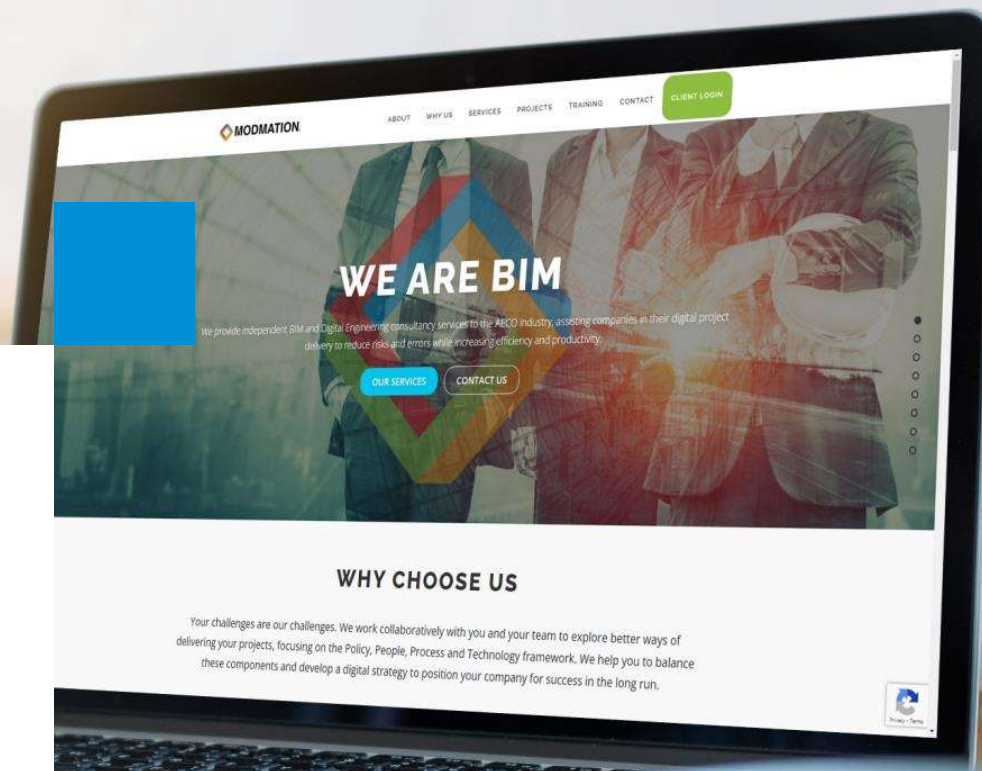


Navigating openBIM and ISO 19650 on a large scale, multi-platform project



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change **2024**
Sydney | 3-4 July



Acknowledgment of Country

I would like to acknowledge the traditional owners of the different lands we work on today. I would also like to pay respect to the Elders both past and present, acknowledging them as the traditional custodians of knowledge for this land.



Agenda



- **Project Scope**
- **Standards**
- **Interoperability**
- **Best Practices**

Presenter



Maciej Wypych



<https://www.linkedin.com/in/maciejwypych/>

Certified BIM Manager, located in Sydney. Maciej brings to the Modmation team more than 20 years of experience in designing, constructing, and consulting on BIM and Digital Engineering projects in Australia, New Zealand, and Europe.



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Project



“The project” is a 500-600m public building in Melbourne.

The project is currently at the tender stage.

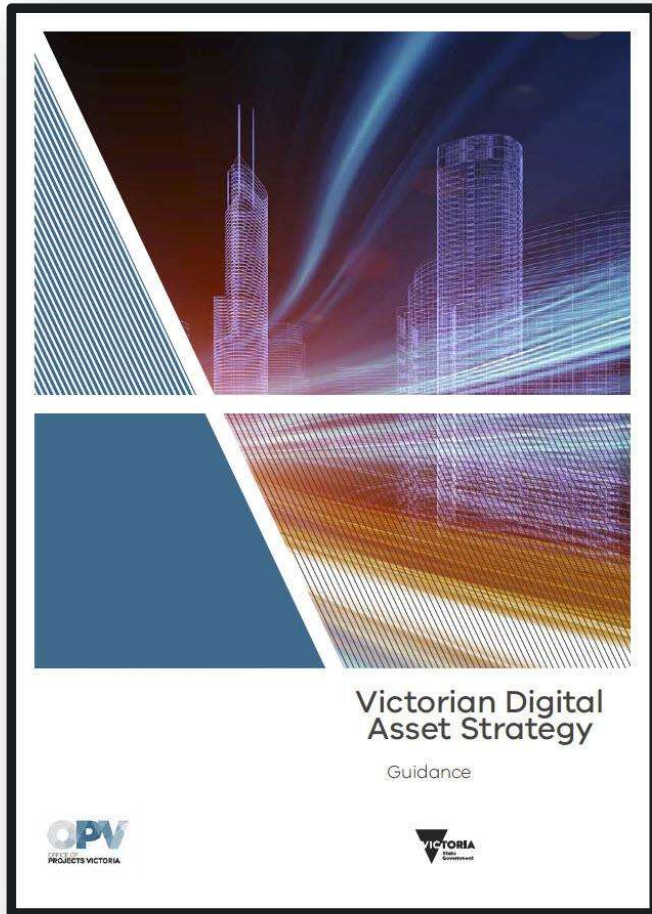
The project is part of a larger development that is being designed and developed by multiple teams.



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Standards



The Victorian Digital Asset Strategy (VDAS) represents a significant shift in how Victorian Government departments and agencies plan, deliver, operate, and maintain assets they manage on behalf of the people of Victoria.

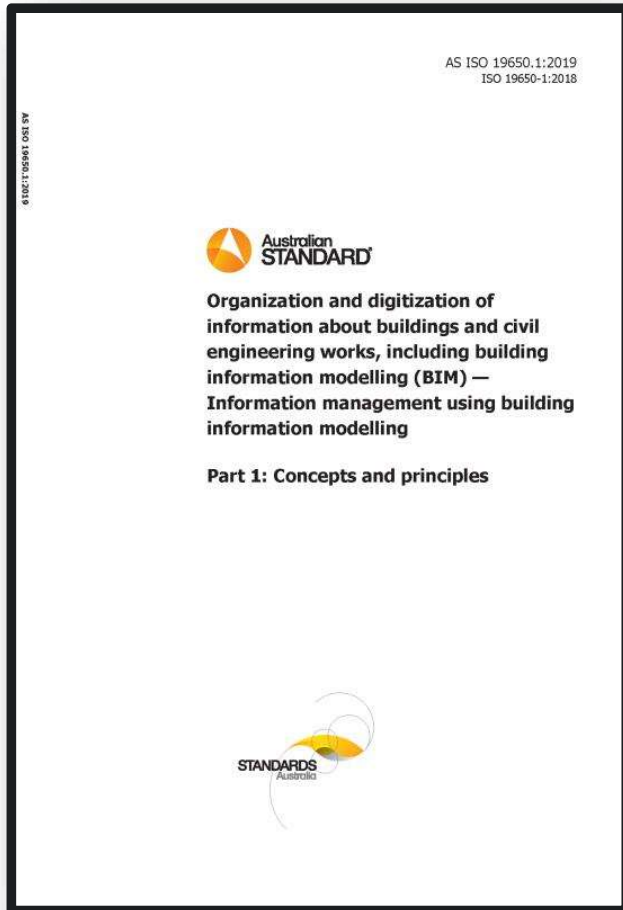
It is a whole-of-government strategy for digitizing construction, which aims to use digital engineering to develop and maintain cost-effective, innovative, and value-adding assets for all Victorians for decades to come



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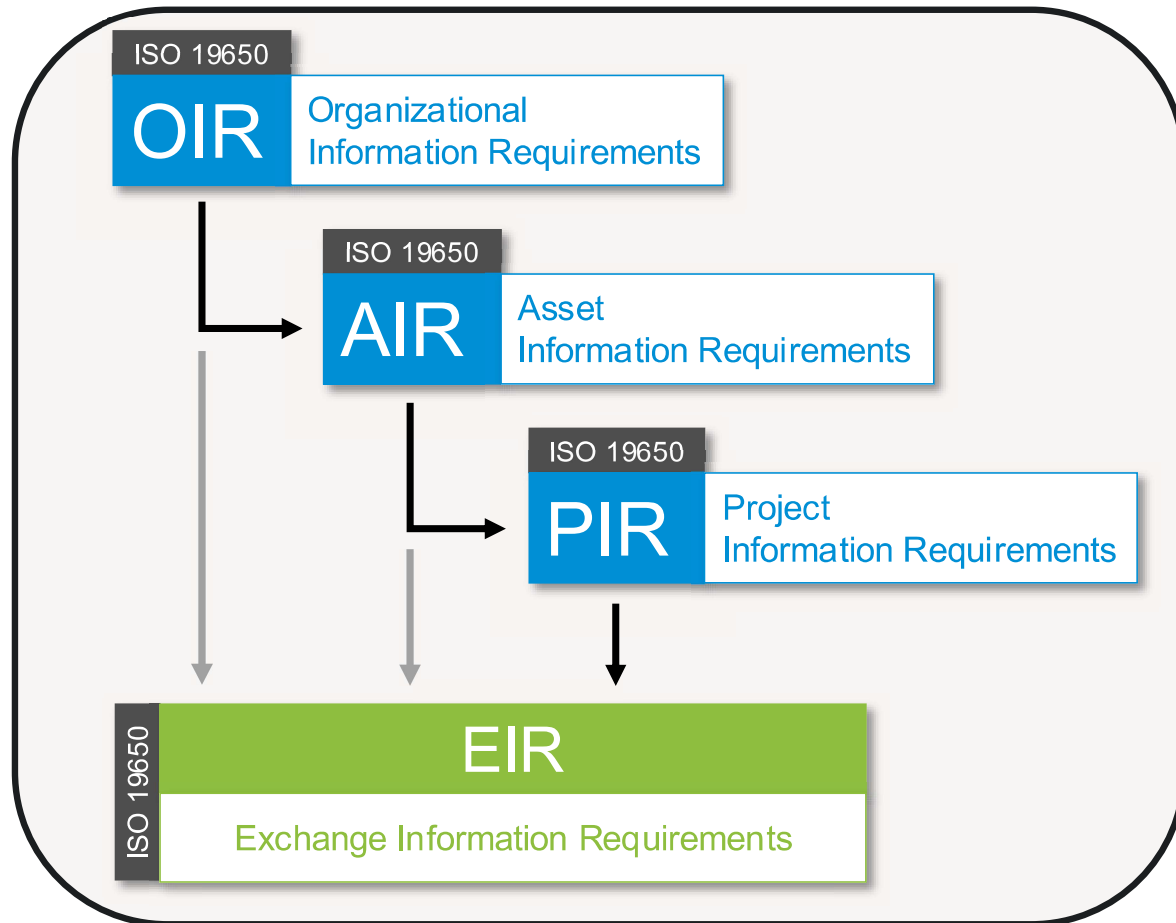
Standards



In Victoria, the use of AS ISO 19650 in BIM projects is aligned with the Victorian Digital Asset Strategy (VDAS). VDAS is a whole-of-government approach to digitizing construction, aiming to use digital engineering to develop and maintain cost-effective, innovative, and value-adding assets.

AS ISO 19650 supports this strategy by ensuring a consistent, integrated, and repeatable approach to creating assets and maximizing the benefits of asset investments

Requirements



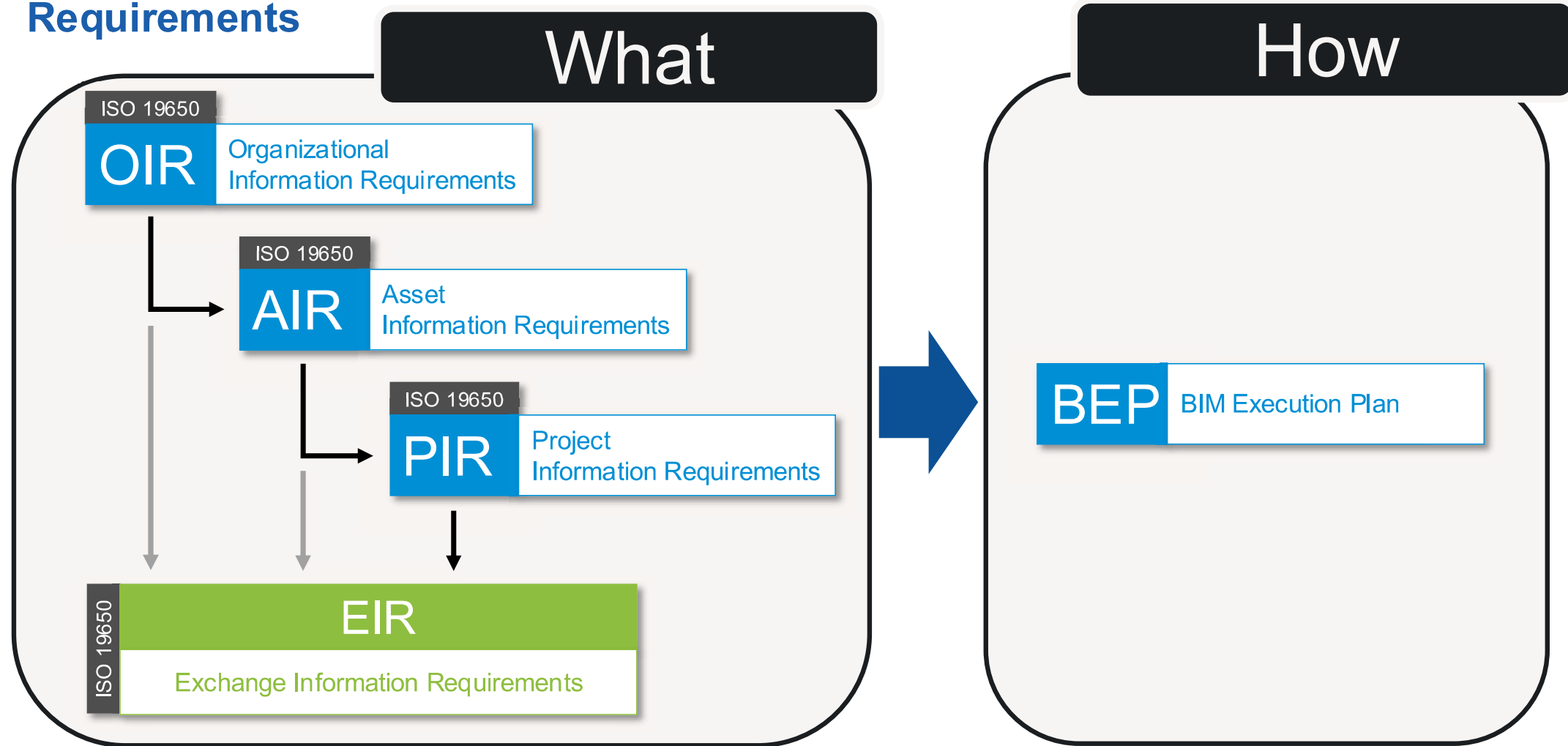
The Exchange Information Requirements (EIR) define the information requirements in relation to an appointment.

The managerial and commercial aspects include the standards, production methods and procedures to be implemented by the delivery team.

The technical aspects of the EIR require that the PIR have been defined to be able to specify those pieces of information needed to answer the PIR.

Across a project there are several different appointments – all EIR combined form a coherent and coordinated set of information requirements.

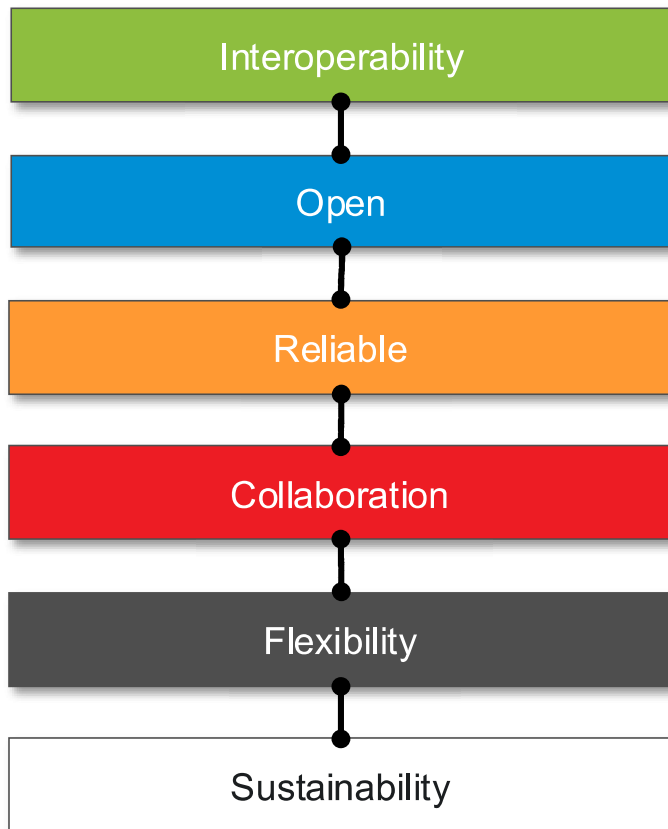
Requirements



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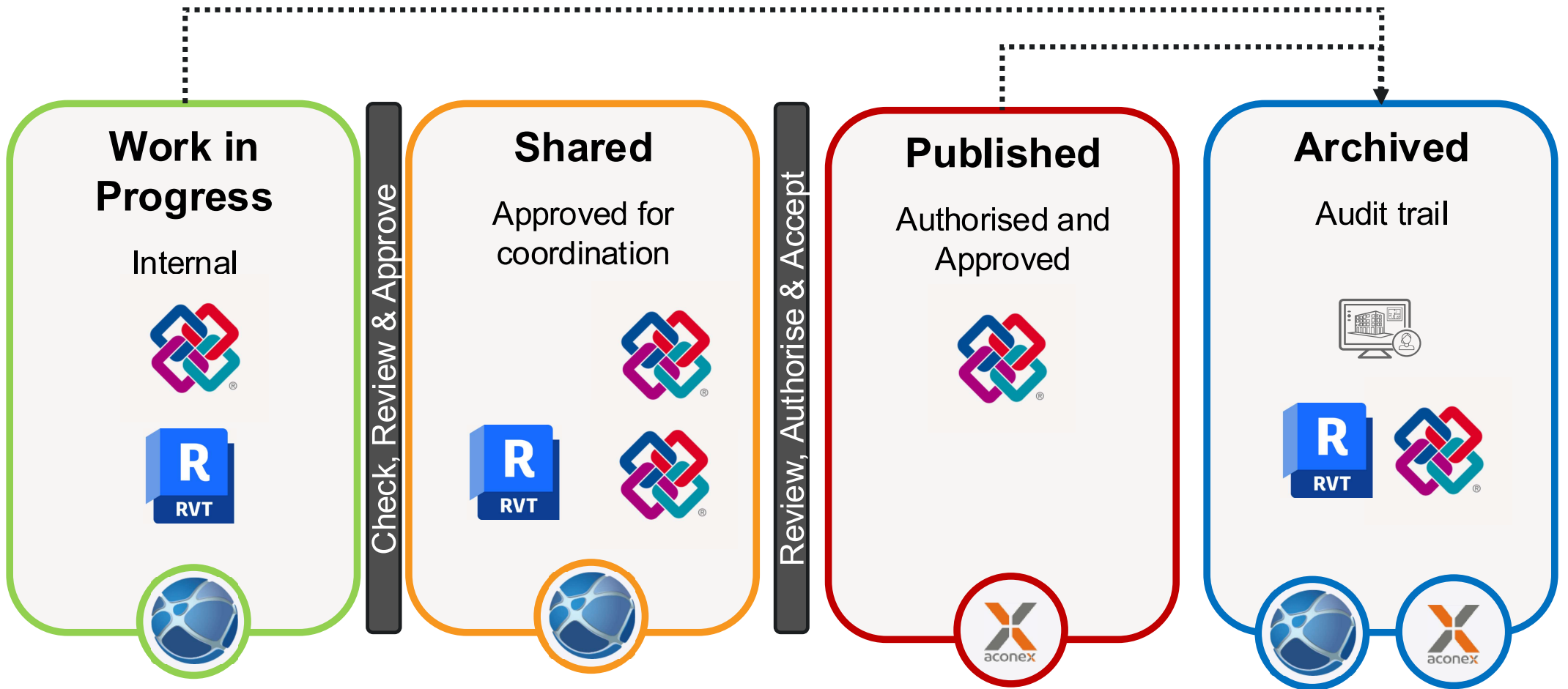
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Approach



- Interoperability is key to the digital transformation in the built asset industry.
- Open and neutral standards should be developed to facilitate interoperability.
- Reliable data exchanges depend on independent quality benchmarks.
- Collaboration workflows are enhanced by open and agile data formats.
- Flexibility of choice of technology creates more value to all stakeholders.
- Sustainability is safeguarded by long-term interoperable data standards.

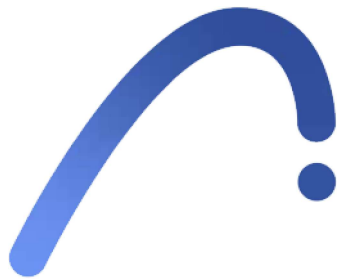
CDE



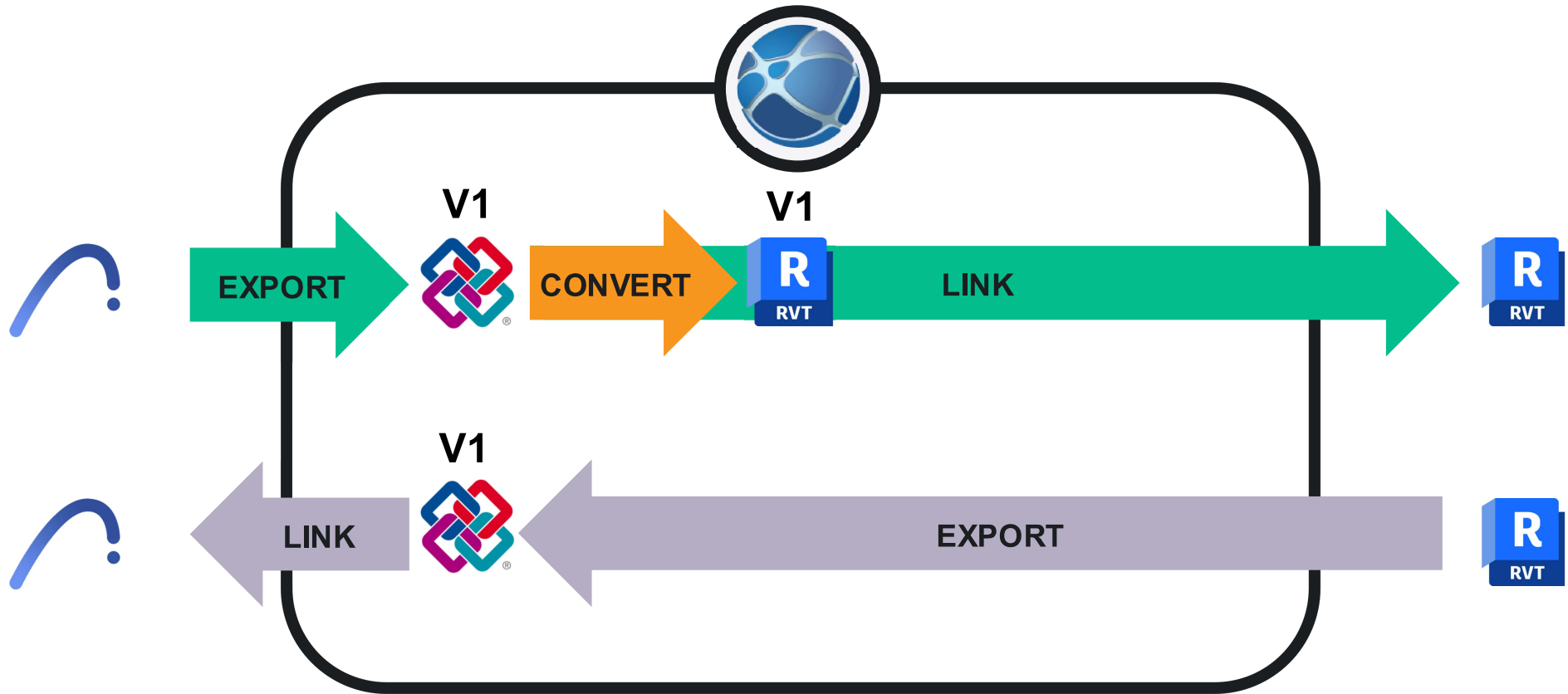
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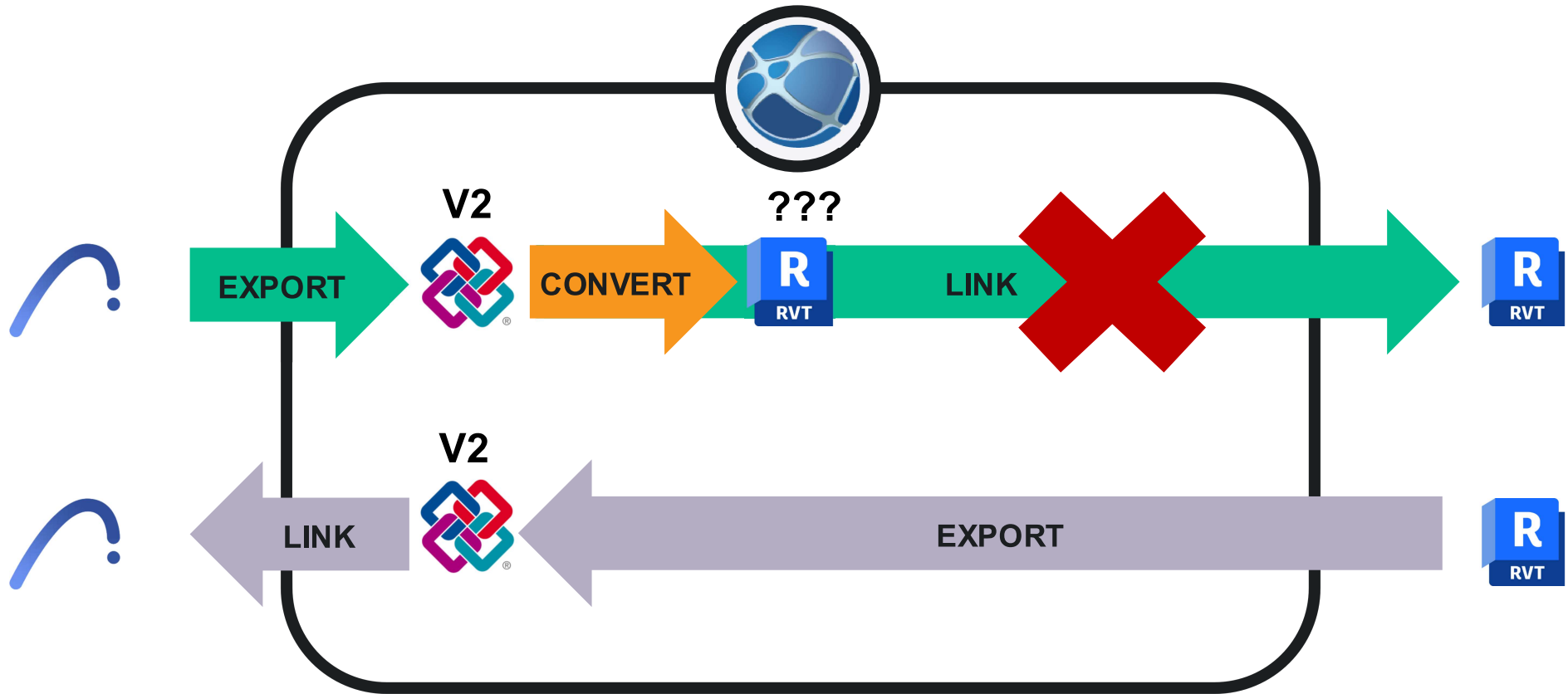
Connecting teams together



IFC workflow



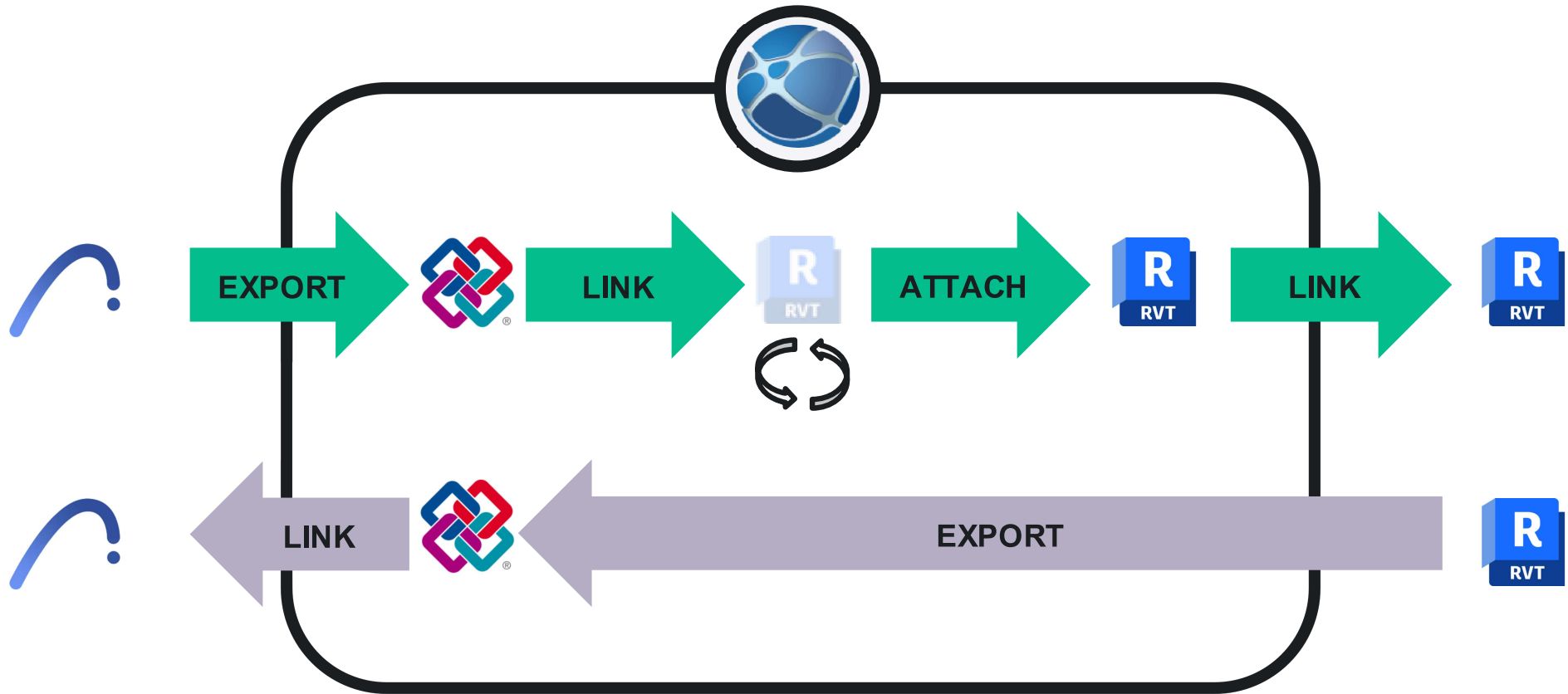
IFC workflow



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IFC workflow



IFC workflow

V1



IFC for coordination

V1



ATTACH

V1



LINK



Temporary file

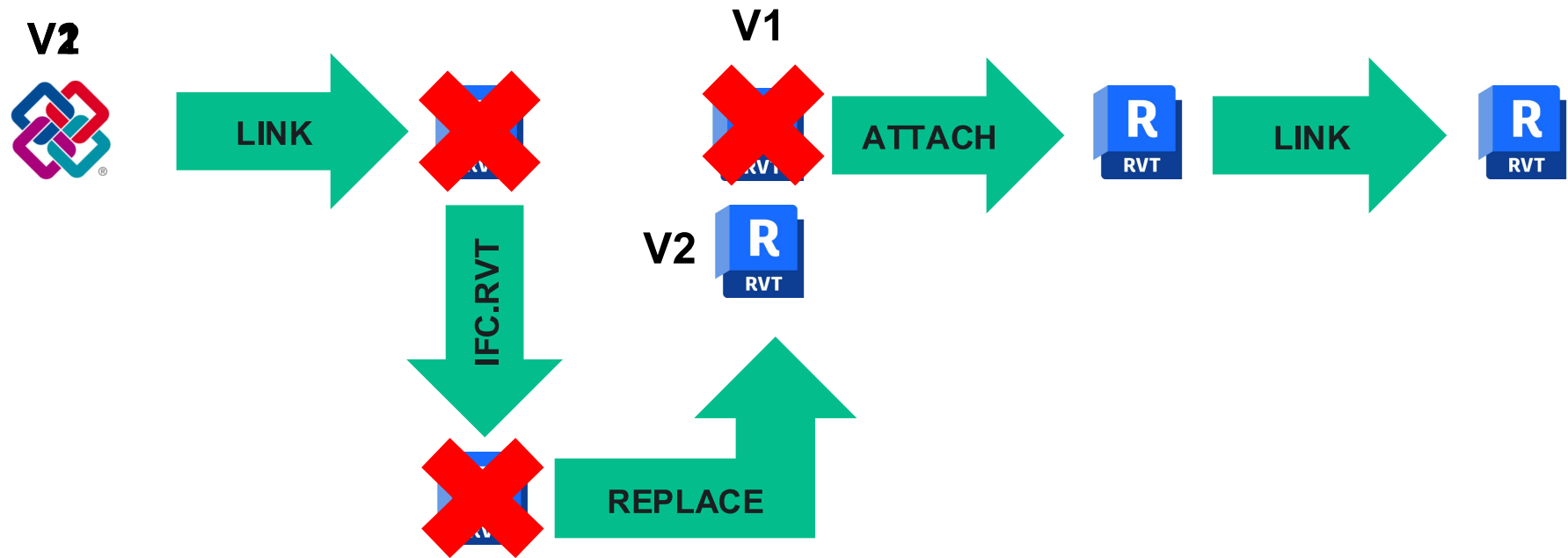
Stable reference



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IFC workflow



IFC workflow

V2



IFC for coordination

V2



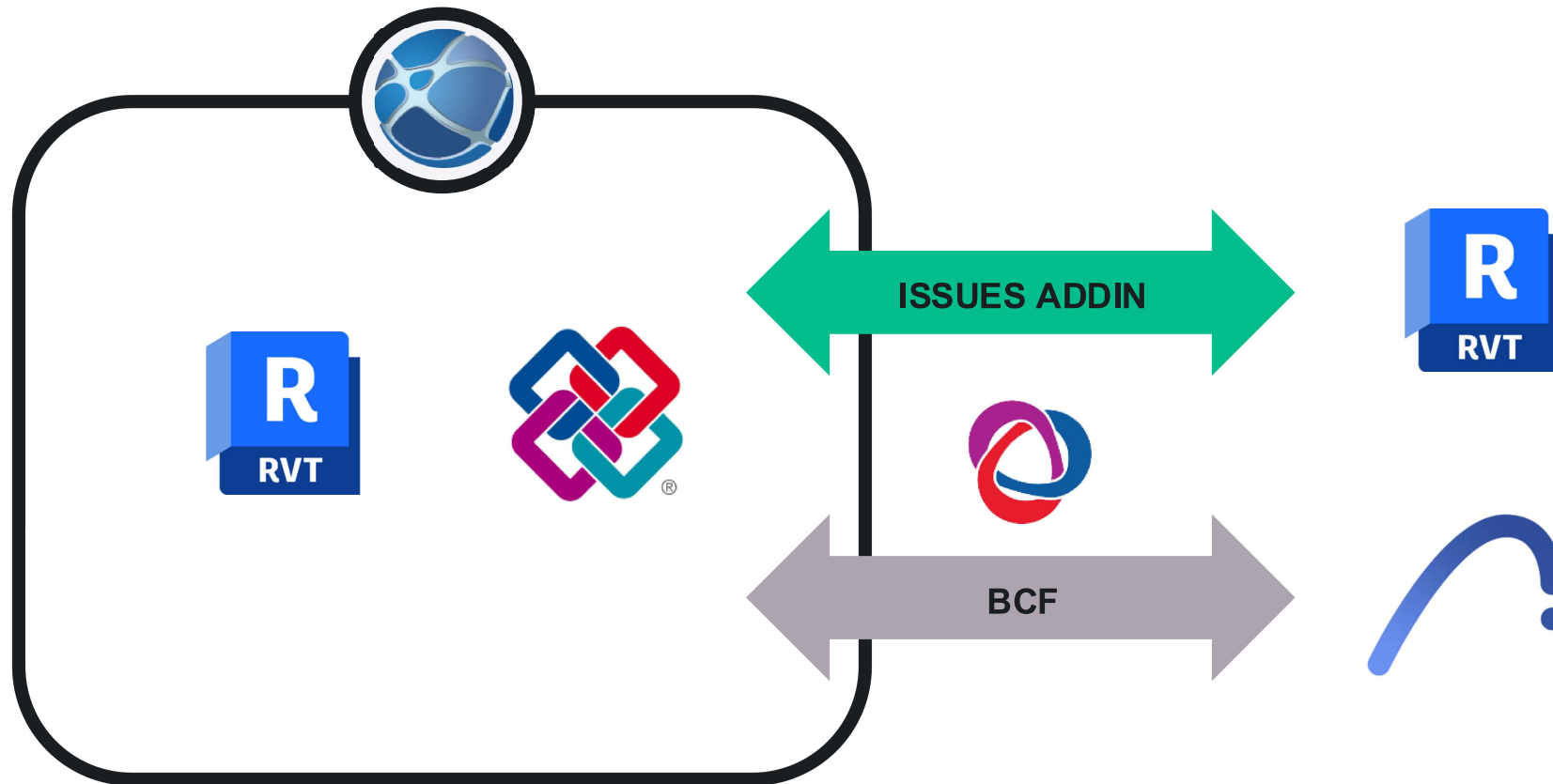
V2



Temporary file

Stable reference

Issue Tracking



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Best Practices



- A successful workflow between Archicad and Revit using IFC requires careful planning and regular testing.
- Plan ahead by ensuring correct export settings are used to create compatible IFC files.
- Understand the differences in schema between Archicad and Revit and ensure mappings are appropriate.
- Ensure compatibility by keeping up-to-date with software updates and by testing the workflow regularly.
- Testing the workflow is crucial to ensure that data exchange is accurate and reliable.



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Thank You
for Your Attention

Maciej Wypych
Director | Modmation Pty Ltd

