

Digital workflow

Ciying

@ MHA

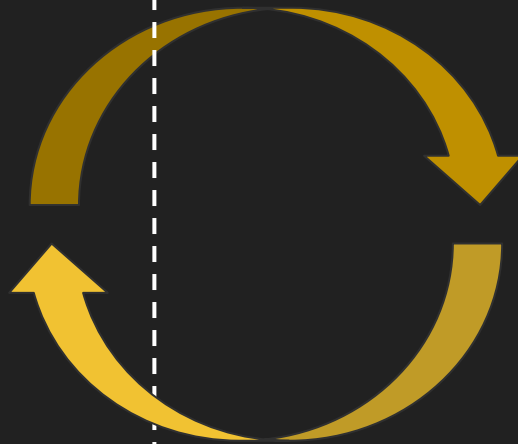
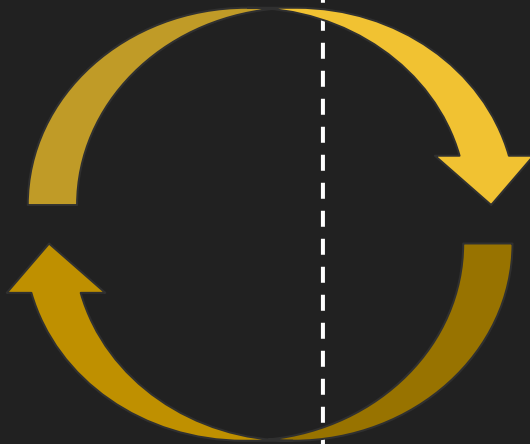
DESIGN WORKFLOW

Others

Architect

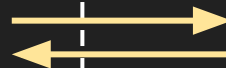
Structural engineer

Concept & scheme
design



Scheme freeze

Detailed design



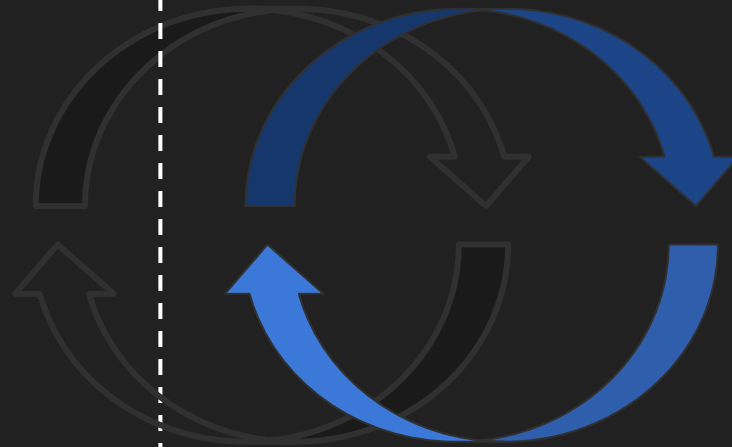
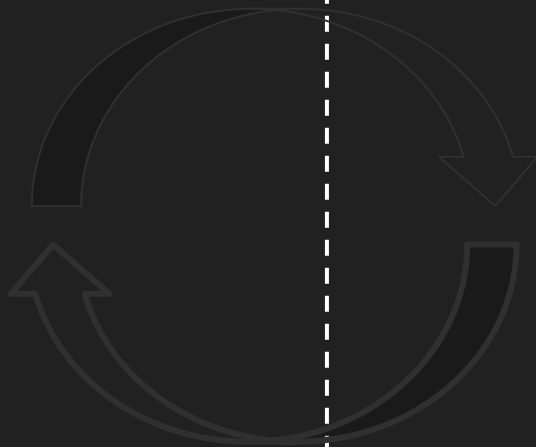
DESIGN WORKFLOW

Others

Architect

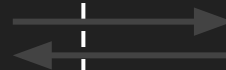
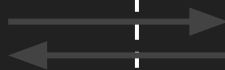
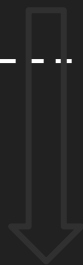
Structural engineer

Concept & scheme
design



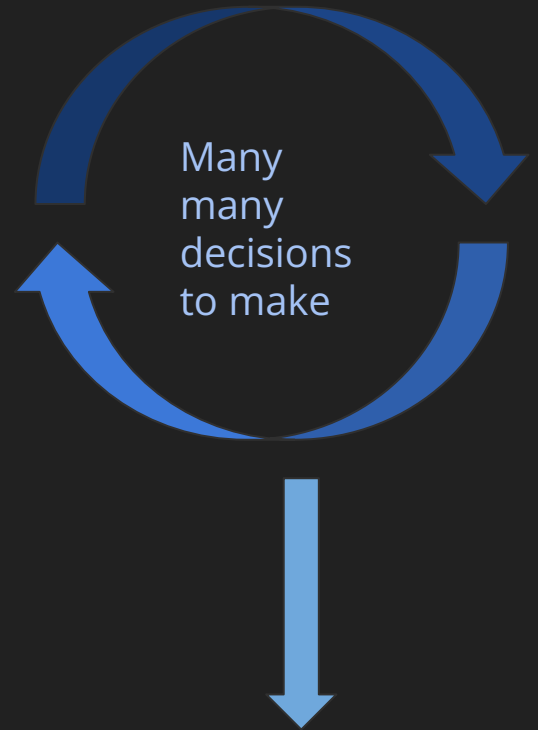
Scheme freeze

Detailed design



Structural engineer

Budget? Timeline? Scope?
Who team? What structure?
How communicate?



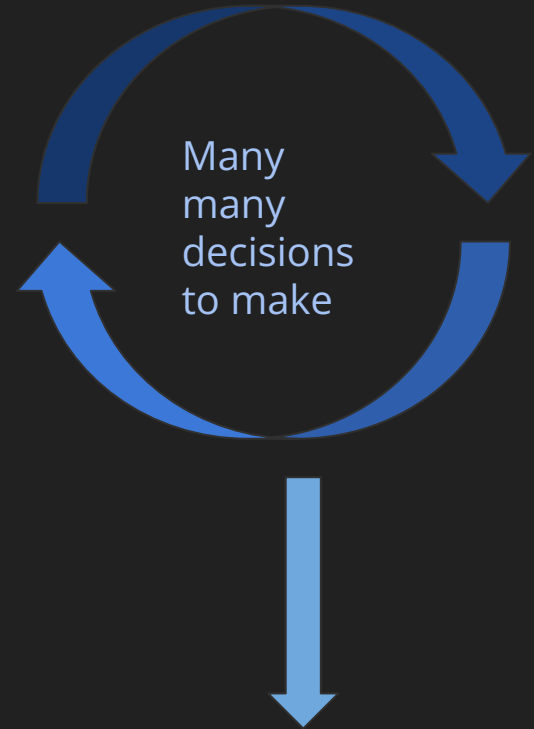
Structural engineer

Budget? Timeline? Scope?
Who team? What structure?
How communicate?

Codes or CAD?
Drawing or model?
Excel or Robot or RFEM?

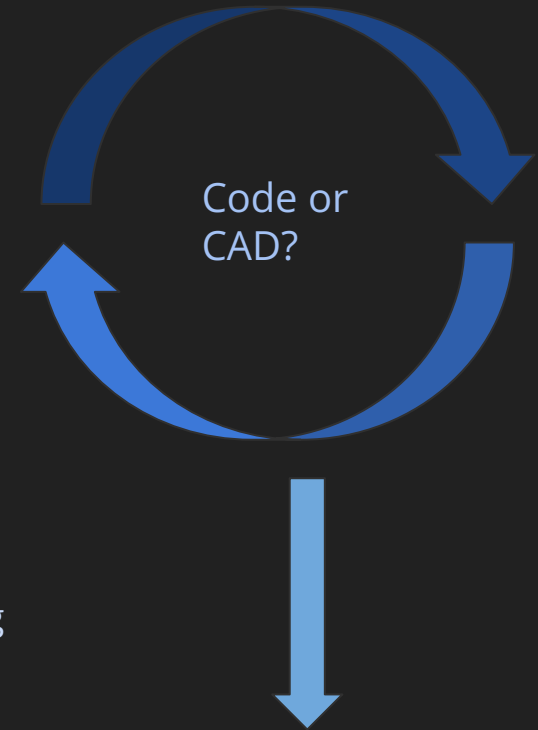
How many iterations to design?
How many options to consider?
How far to optimise?

.....



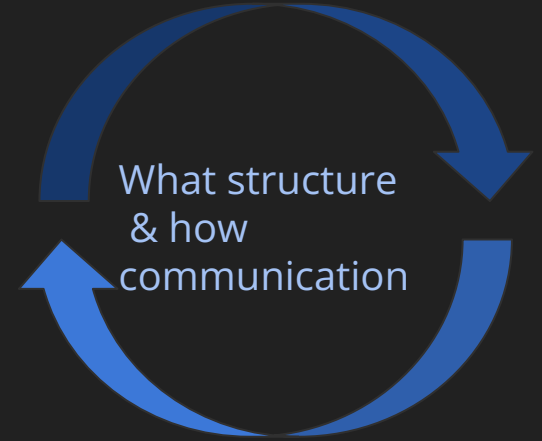
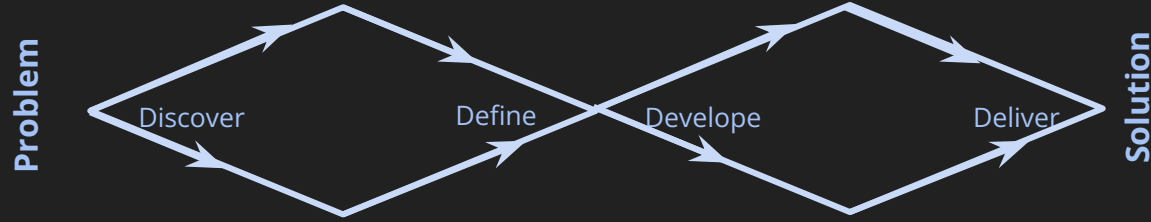
Structural engineer

Project	Codes	CAD
Standard / simple	<ul style="list-style-type: none">- Easy- Can only check a few options	<ul style="list-style-type: none">- Need good assumptions- Check lots of variables
Strange / complicated	x	<ul style="list-style-type: none">- Powerful tool- Need good assumptions- Need understanding of results



What can the workflow be?

Structural engineer

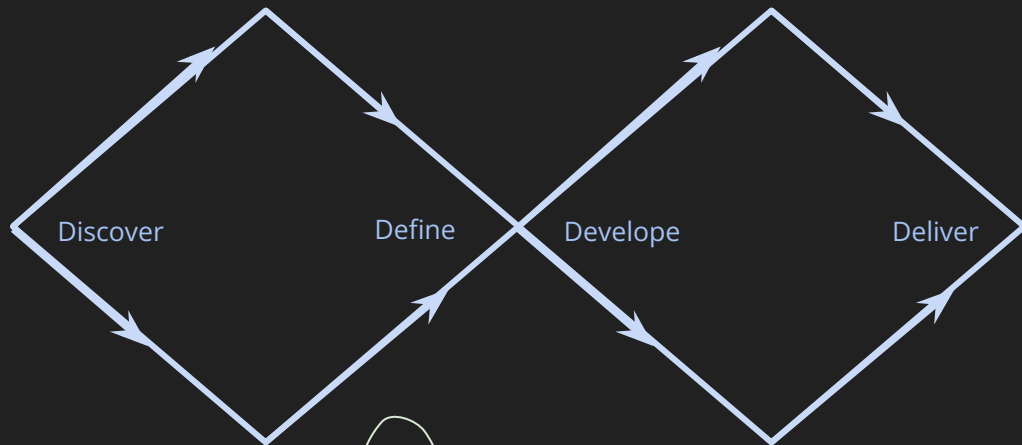


Entropy level

Communication
difficulty

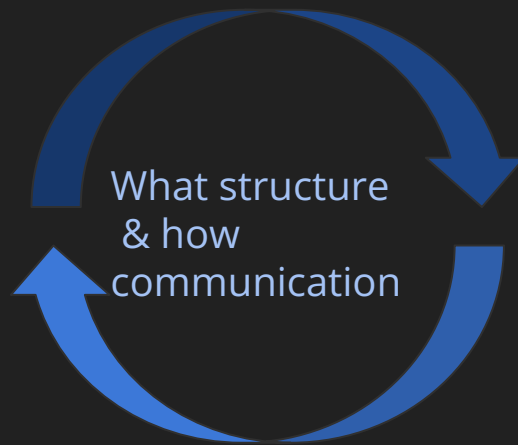


Problem



Solution

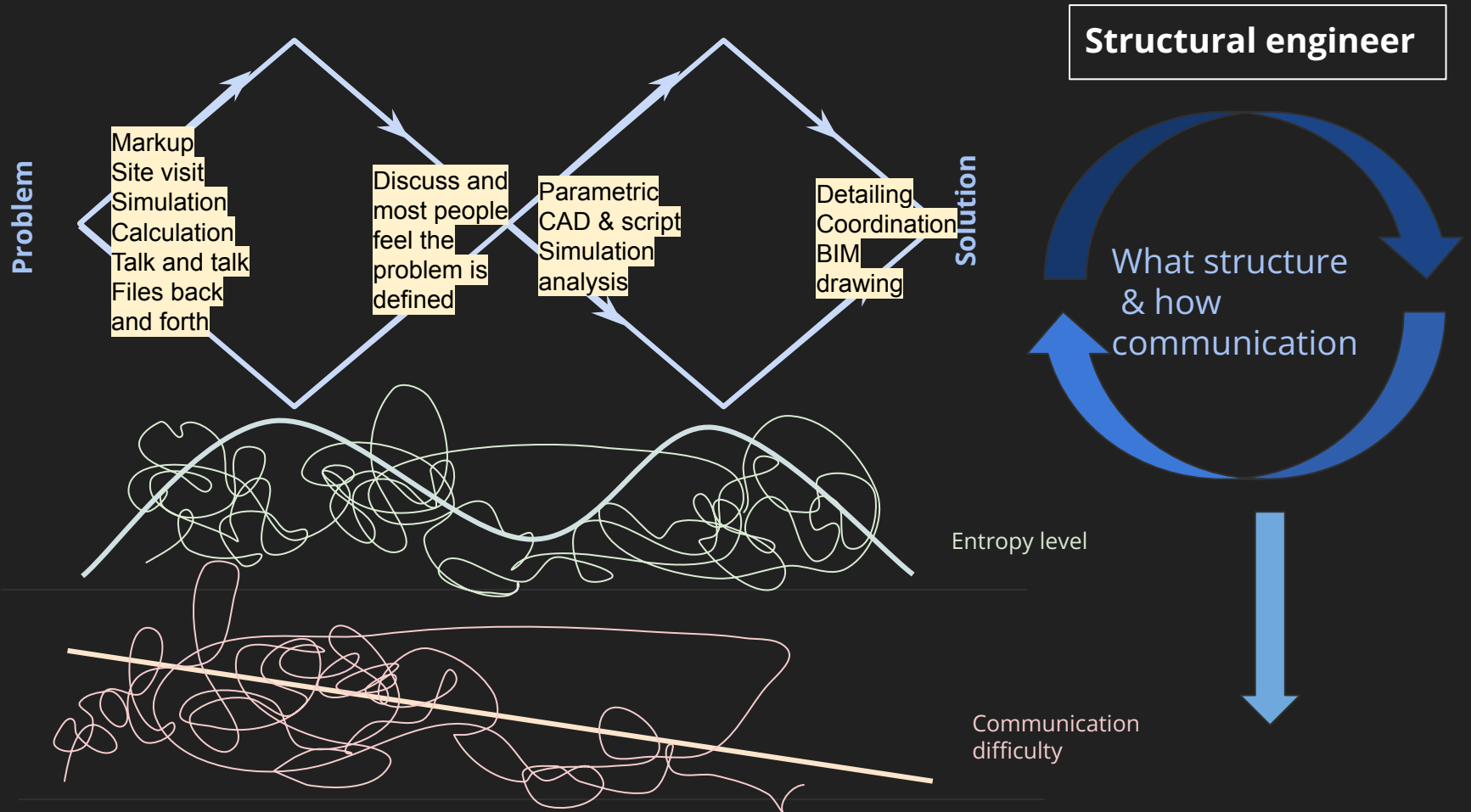
Structural engineer



Entropy level

Communication difficulty





Problem

Discover

' It is desirable to reduce the number of programs and formats used, and to adopt a database approach whereby as much data as possible is shared between the various digital models '.

Deliver

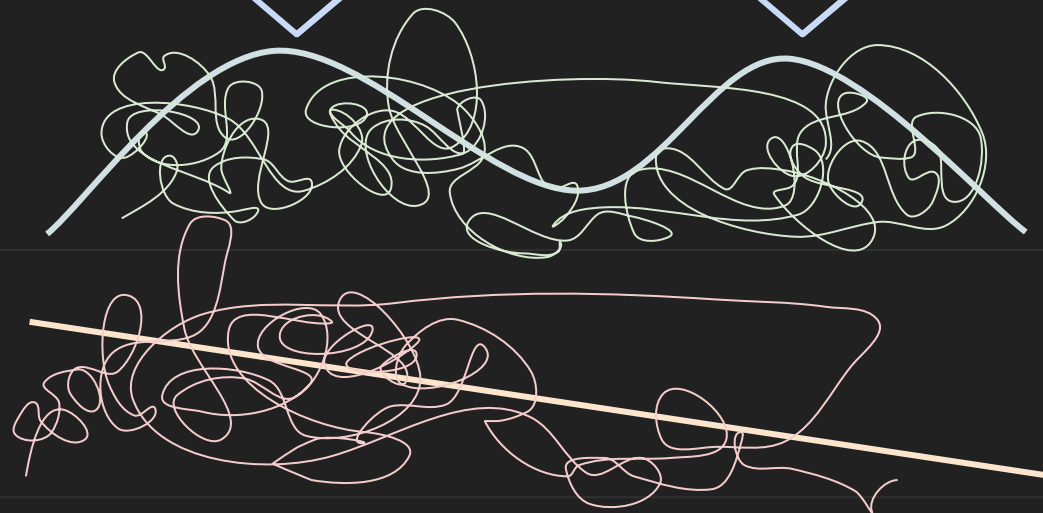
Solution

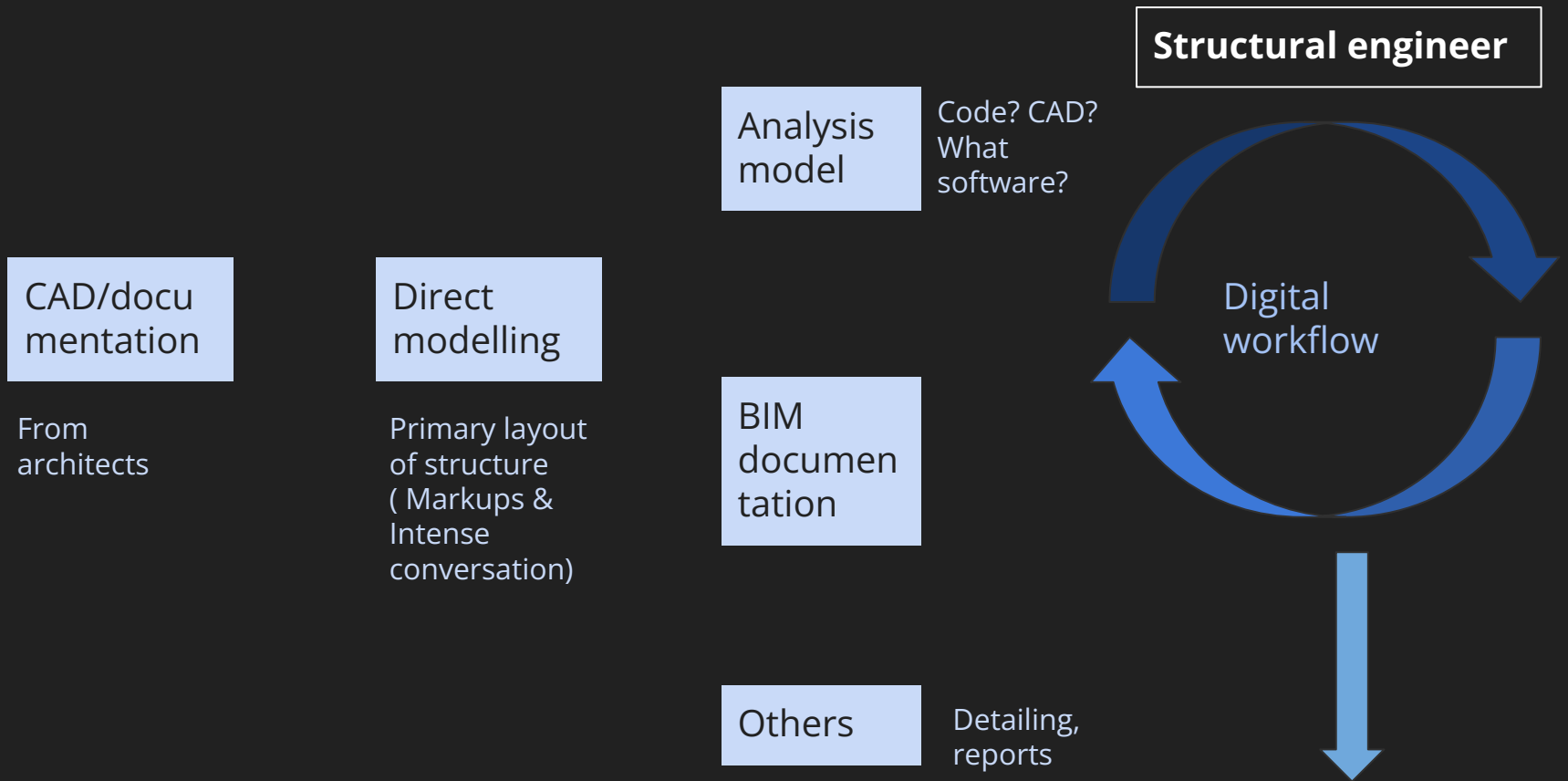
Structural engineer

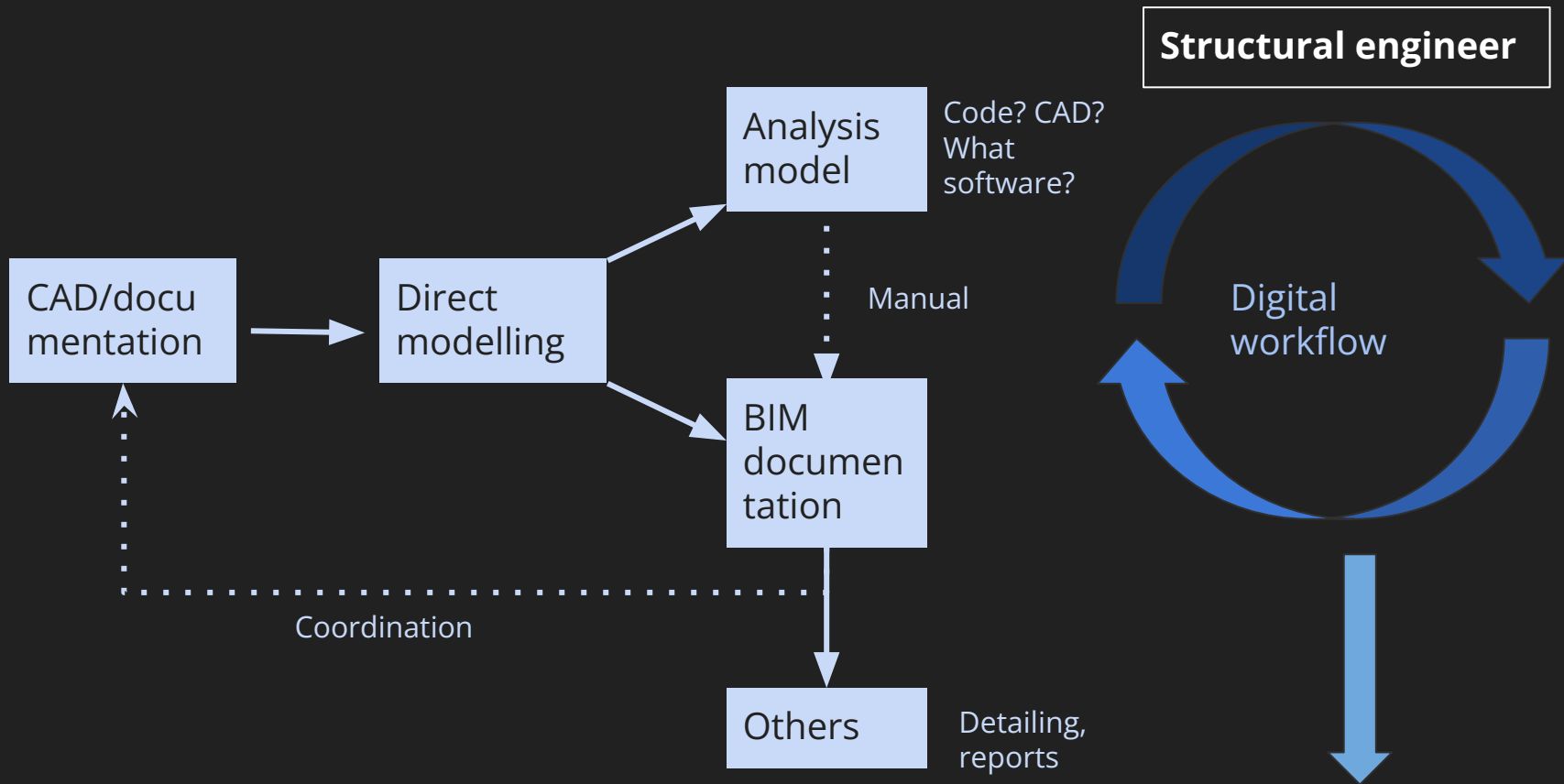
What structure
& how
communication

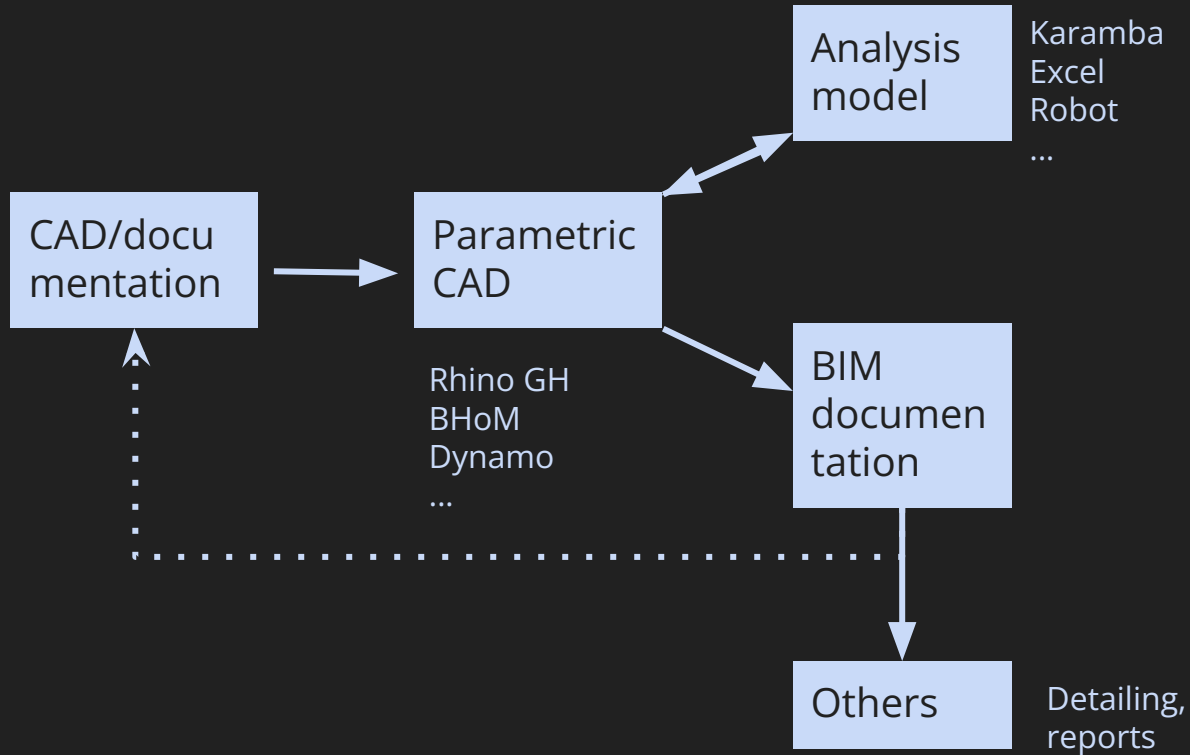
Entropy level

Communication
difficulty

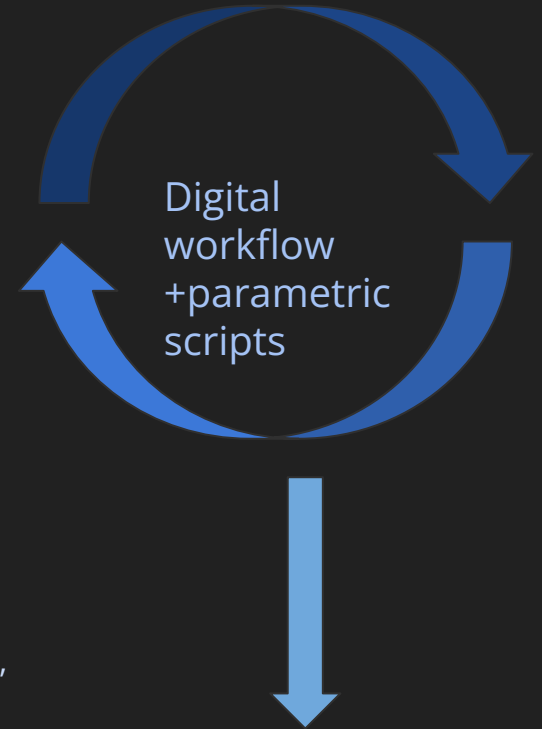


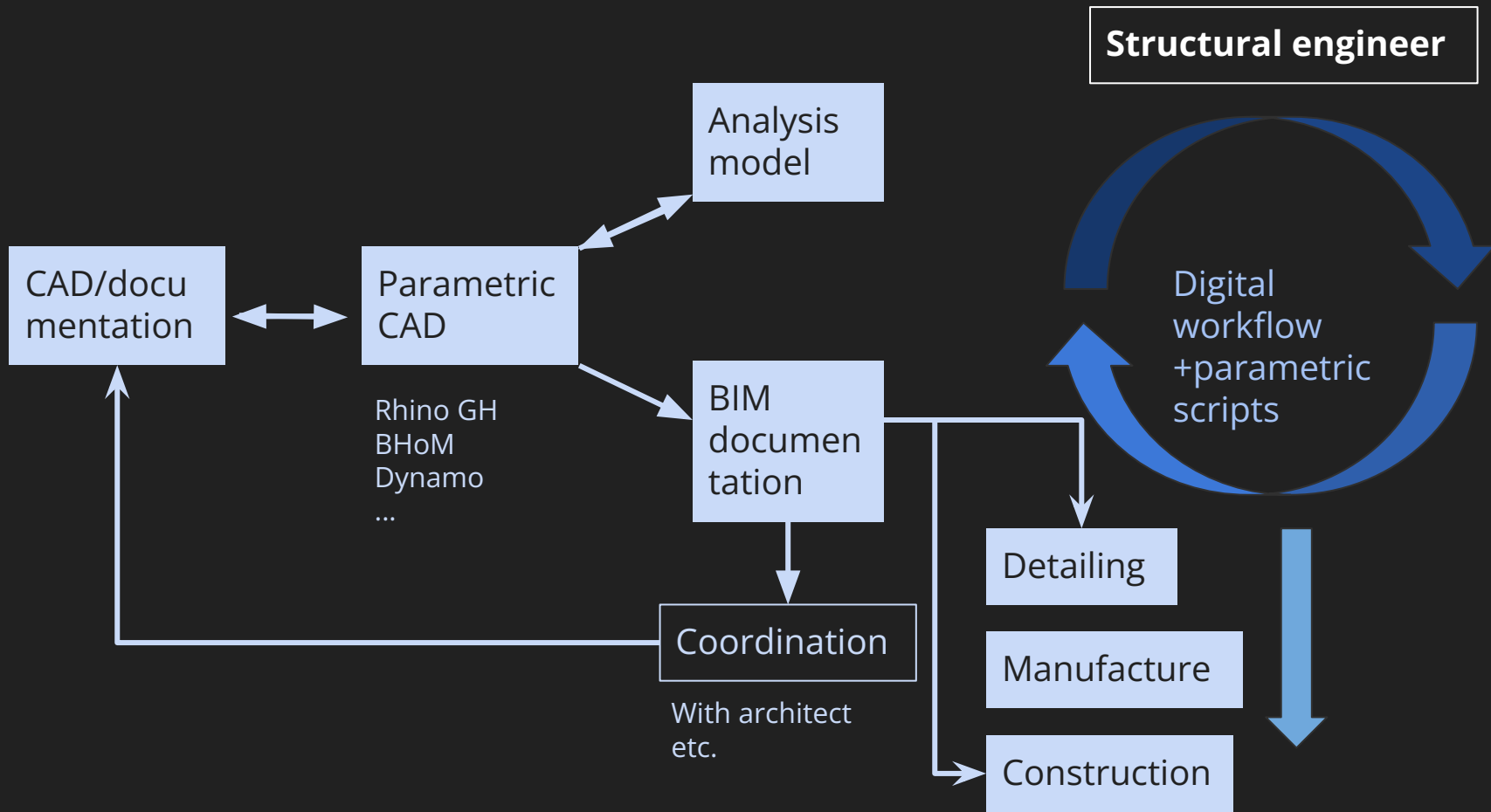






Structural engineer



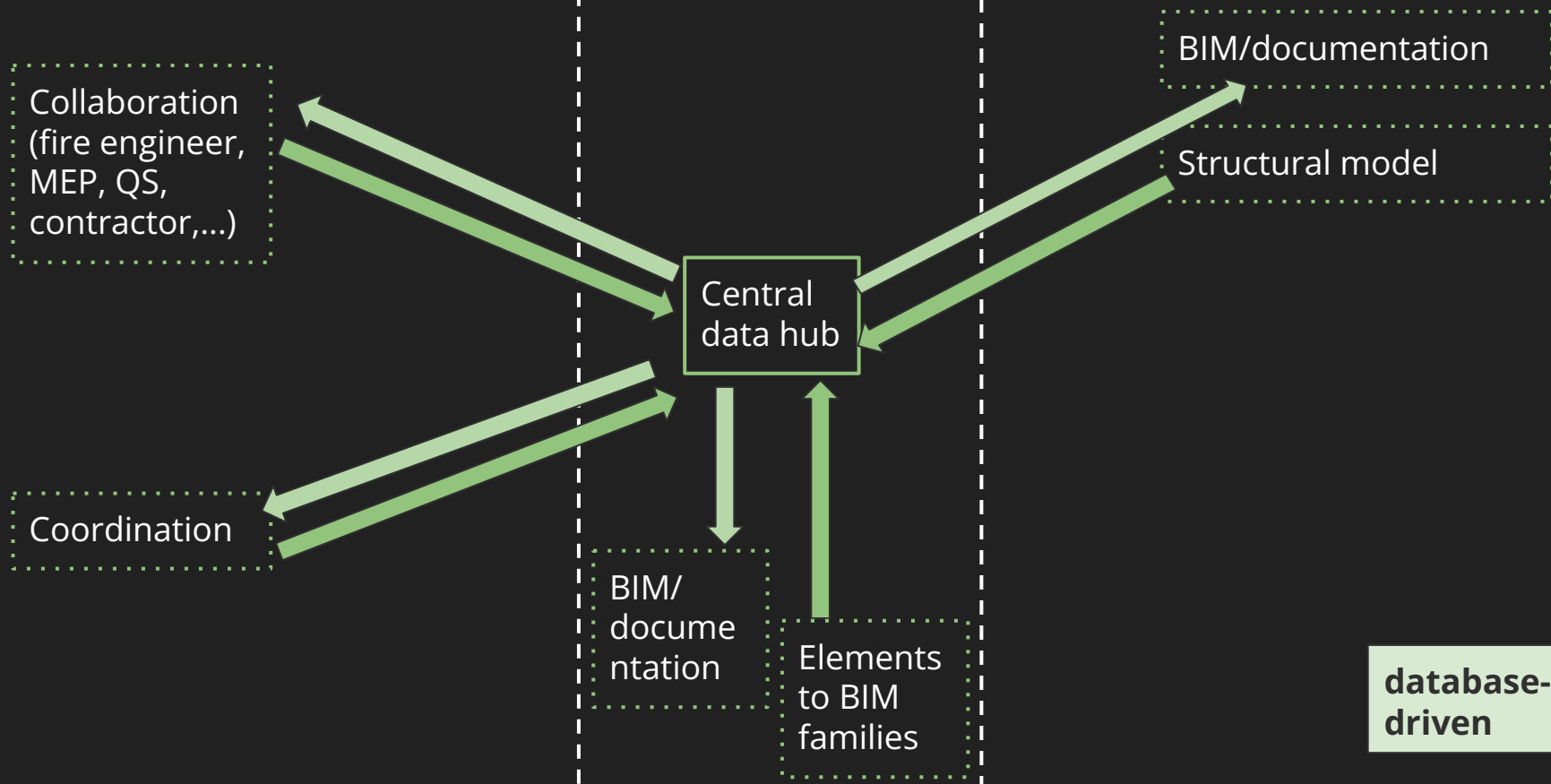


INFO FLOW DIAGRAM

Others

Architect

Structural engineer

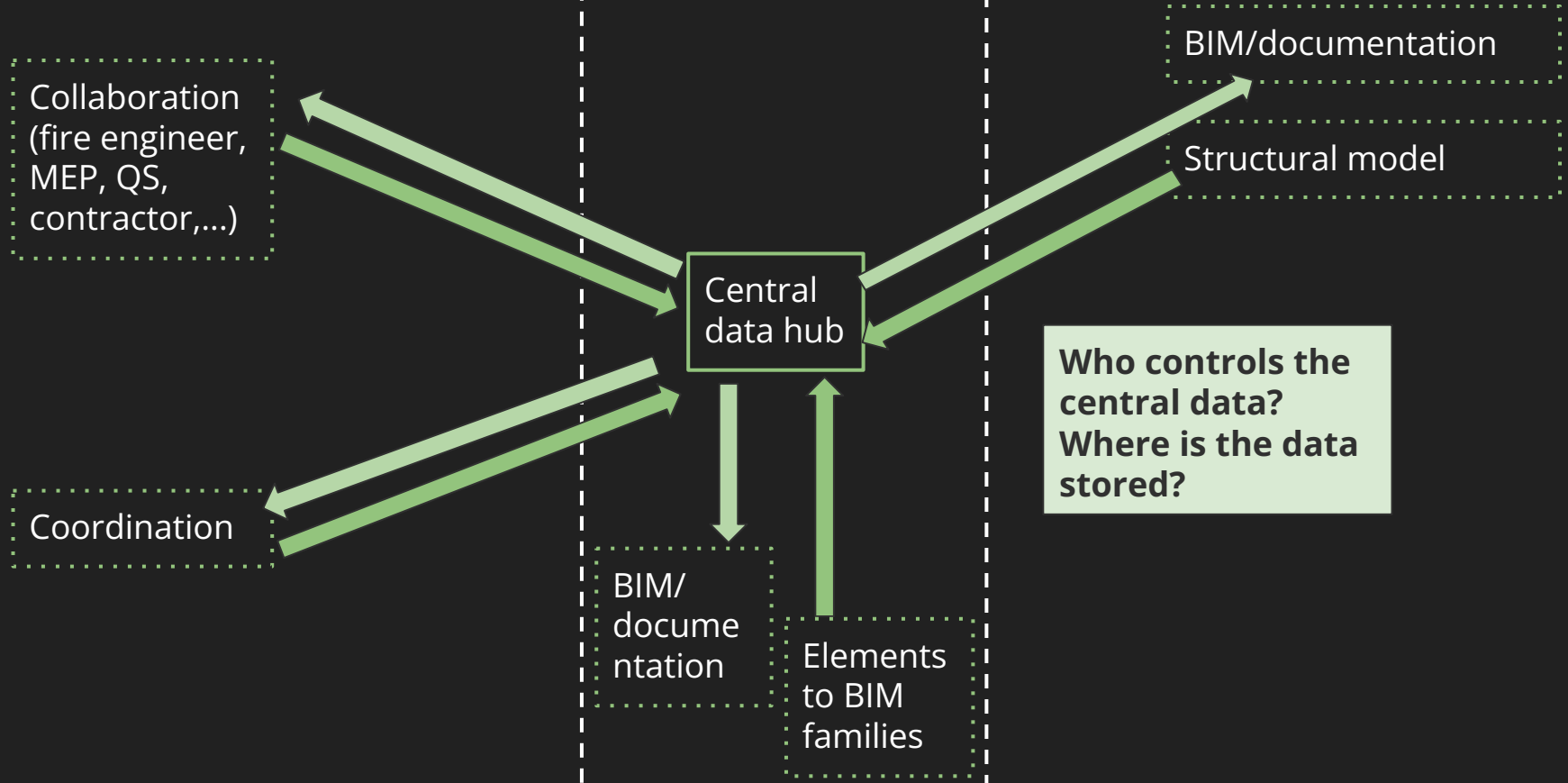


INFO FLOW DIAGRAM

Others

Architect

Structural engineer

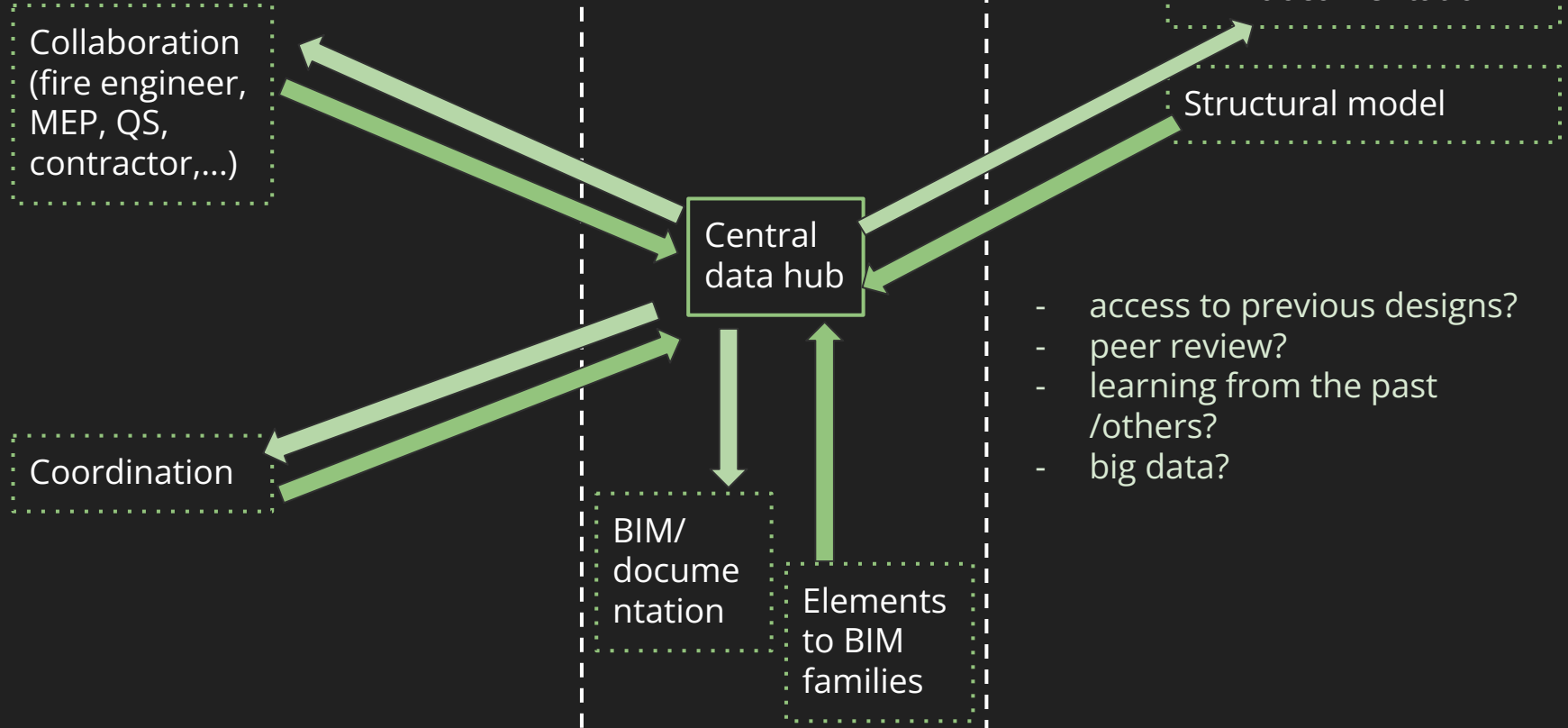


INFO FLOW DIAGRAM

Others

Architect

Structural engineer



INFO FLOW

Others

Architect

Structural engineer



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Various SVG test files and scripts

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llcheesell llcheesell

Director, Producer of xR projects

2 repositories 25 followers

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totetmatt/bonzo_tool_scripts

BTS: Bonzo Tool Scripts

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Star



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sp4ghet/pts_loader

Updated Sep 2

Star

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Deprecating Learning Lab

to BIM families

INFO FLOW

Others

Architect

Structural engineer

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CIYING1017 Update works.html ✓ f8aa15e on 5 Jun 675 commits

assets	Update main.css	12 months ago
bios	Create highschool.html	9 months ago
blogs	Create blog04.html	6 months ago
css	Update styles.css	8 months ago
images	Add files via upload	3 months ago
js	Create photo gallery.js	9 months ago
lightbox2-2.11.3	Create lightbox-plus-jquery.min.map	9 months ago
original blogs page	Create blog_03.html	9 months ago
original files	Delete README.md	9 months ago
original portfolio page	Create portfolio_03.html	9 months ago
original works page	Create work_07.html	9 months ago
portfolios	Delete Brunswick.pdf	8 months ago
videos	Create 20180514204534.mp4	12 months ago
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Environments 1

github-pages **Active**

Deprecating Learning Lab

to BIM
families

INFO FLOW DIAGRAM

Others

Architect

Structural engineer

Collaboration
(fire engineer,
MEP, QS,
contractor,...)

BIM/documentation

Structural model

Central
data hub

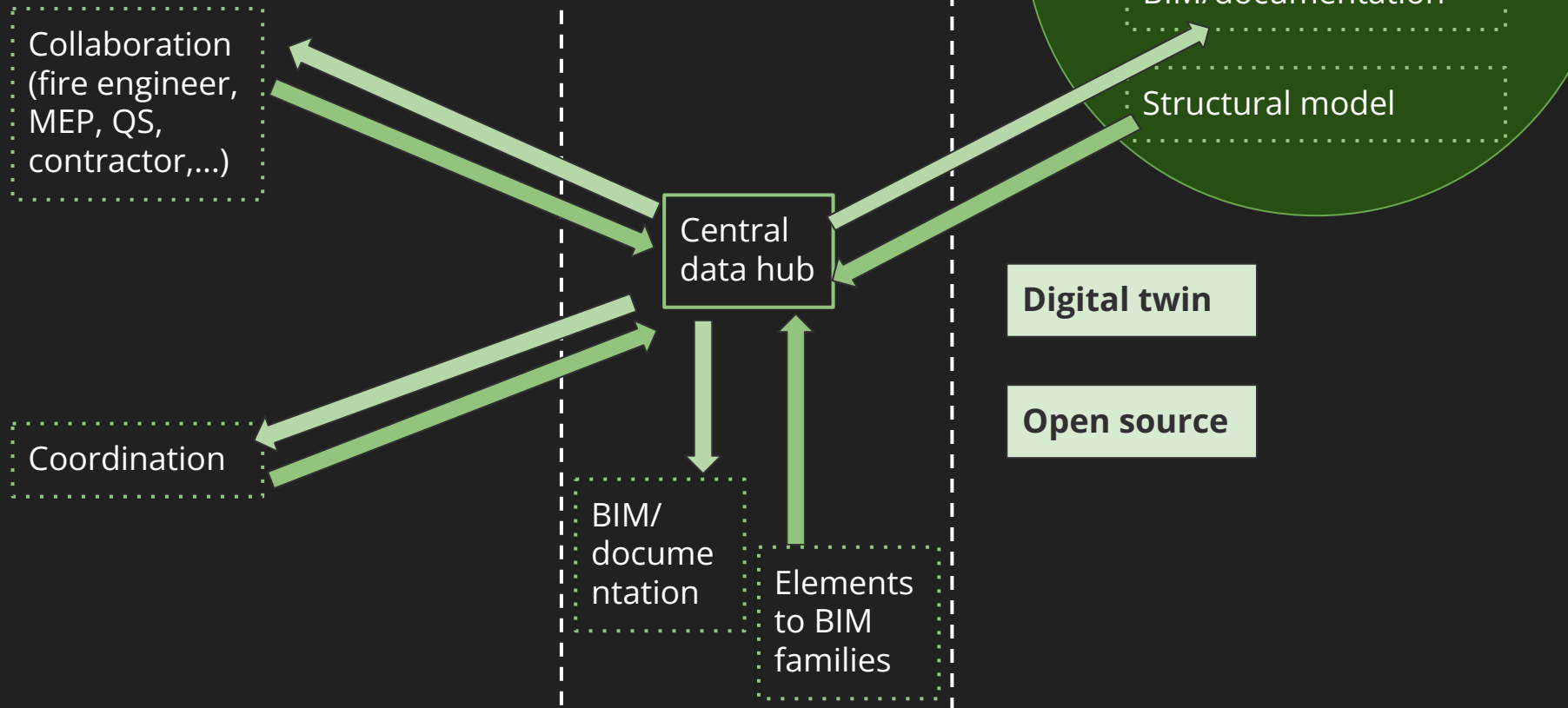
Digital twin

Open source

Coordination

BIM/
docume
ntation

Elements
to BIM
families



**OPEN
SOURCE**

MHA

BIM/documentation

Structural model

MHD

MHB

MHF

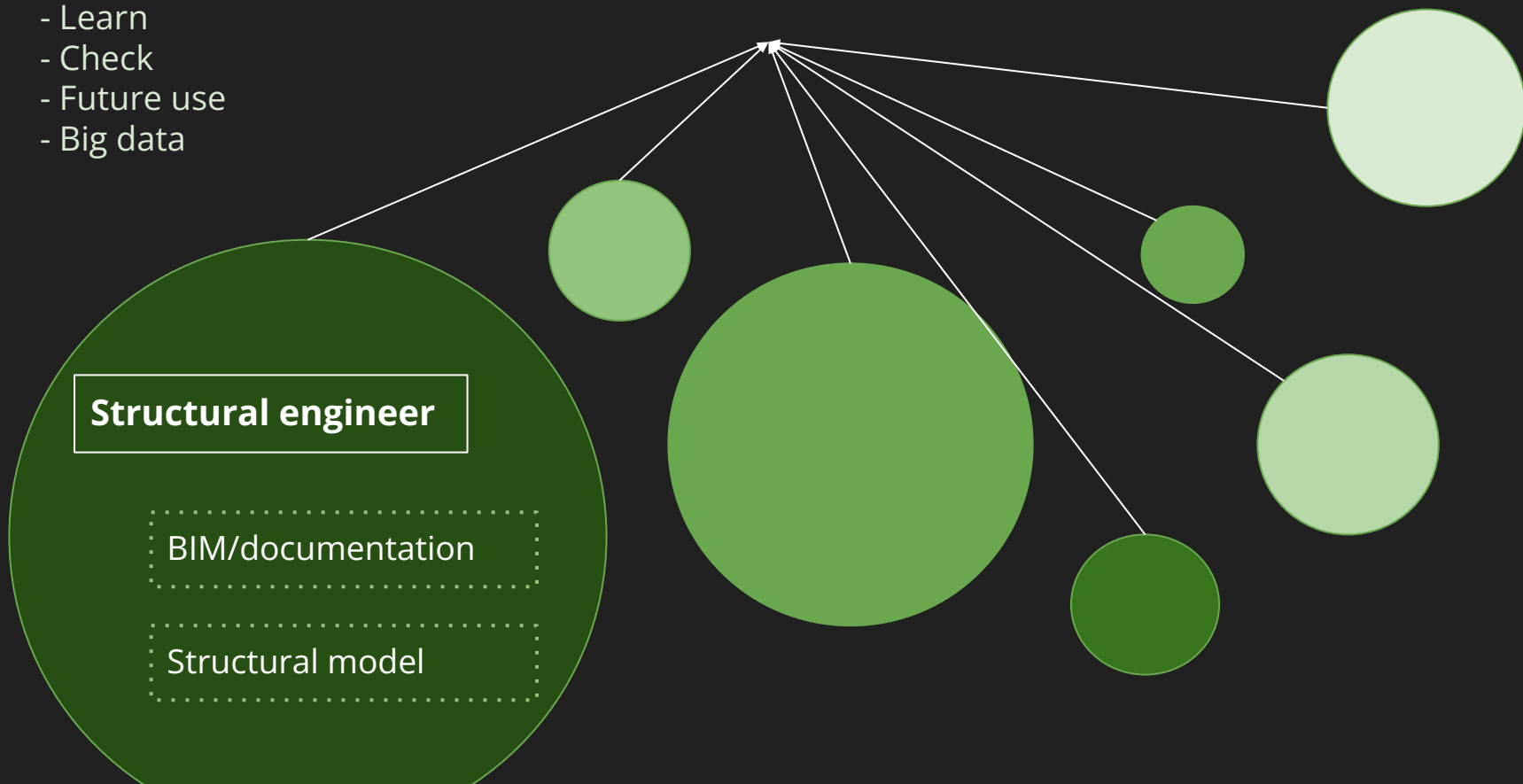
MHE

MHC

MHG

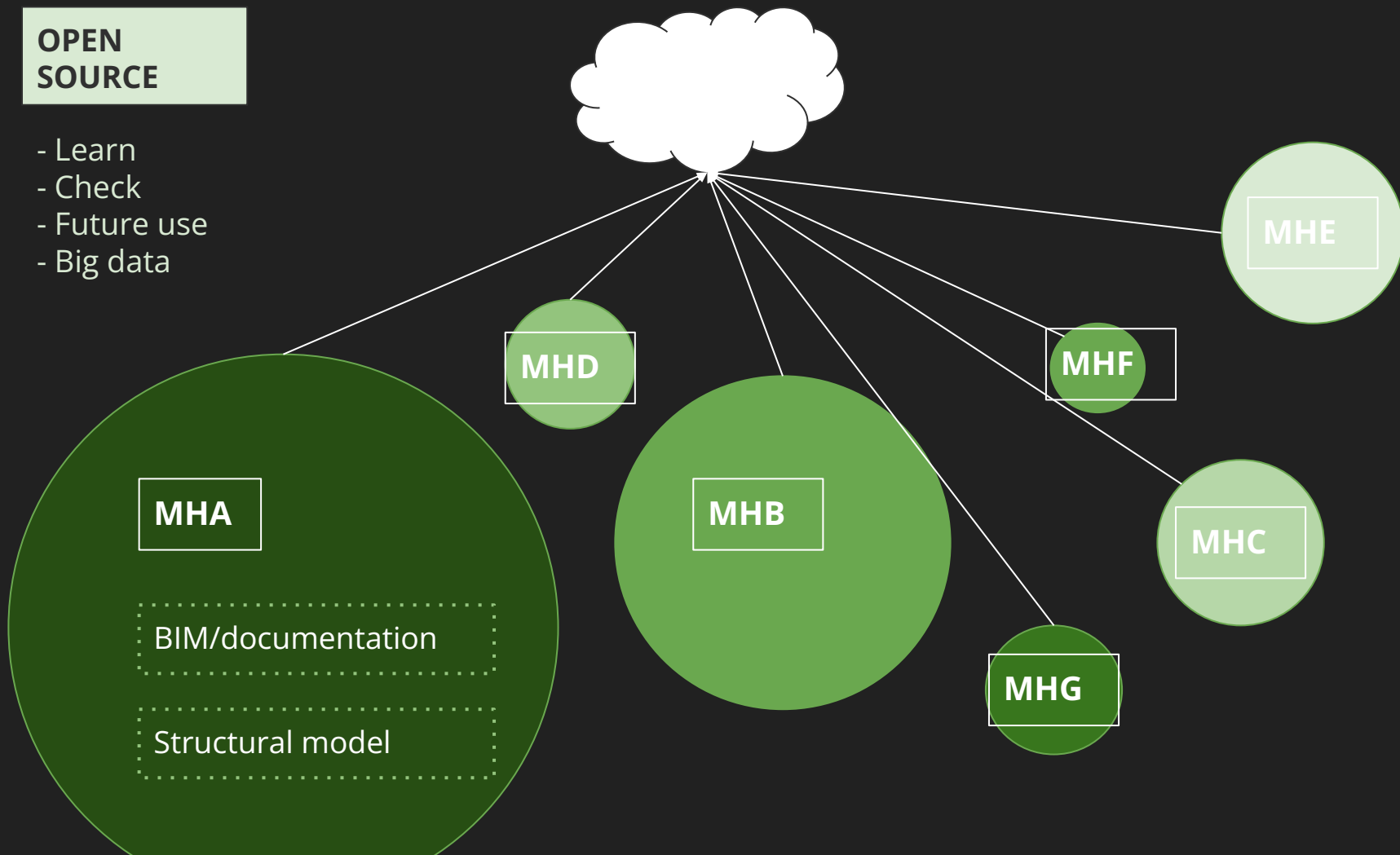
OPEN SOURCE

- Learn
- Check
- Future use
- Big data



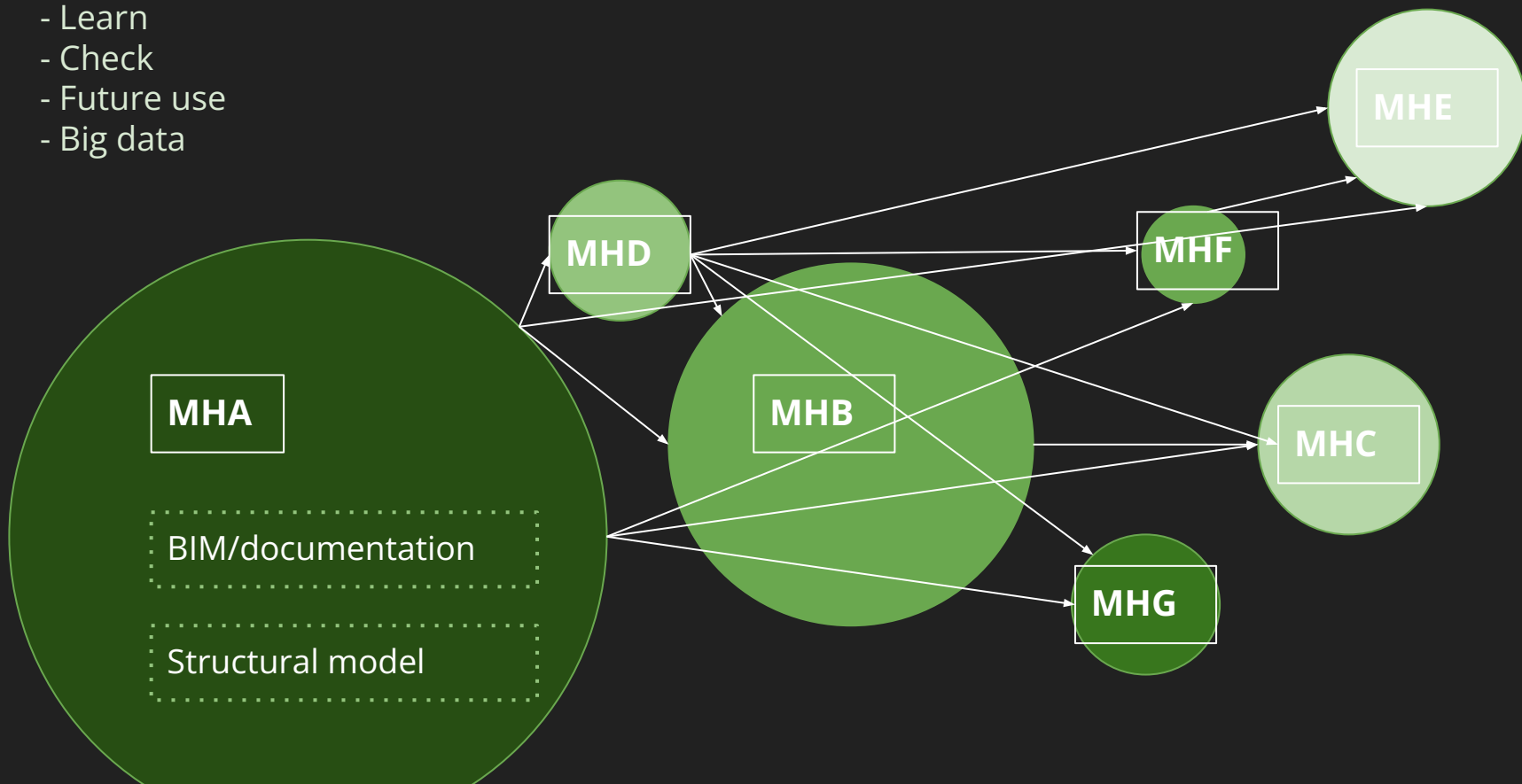
OPEN SOURCE

- Learn
- Check
- Future use
- Big data



WEB3 OPEN SOURCE

- Learn
- Check
- Future use
- Big data

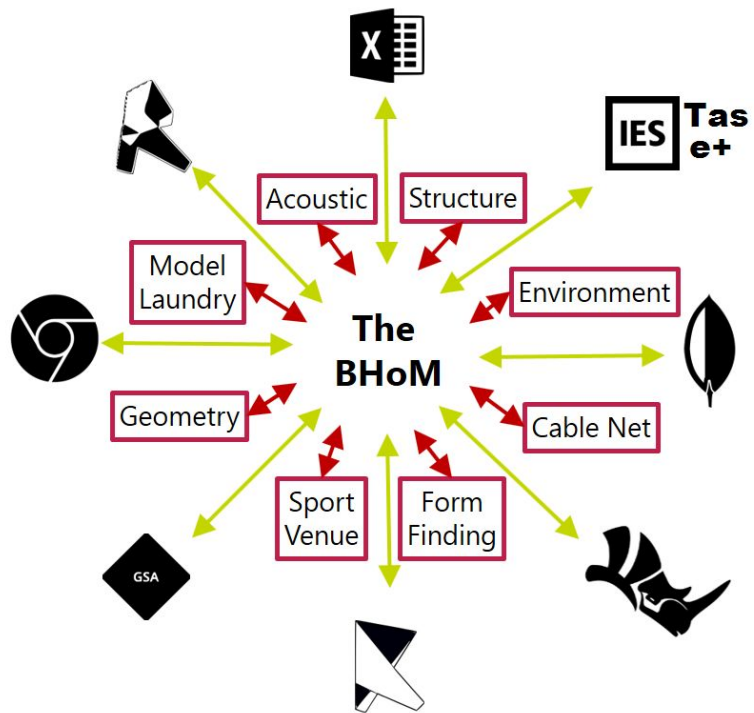


INFO FLOW DIAGRAM

Others

Architect

Structural engineer



families

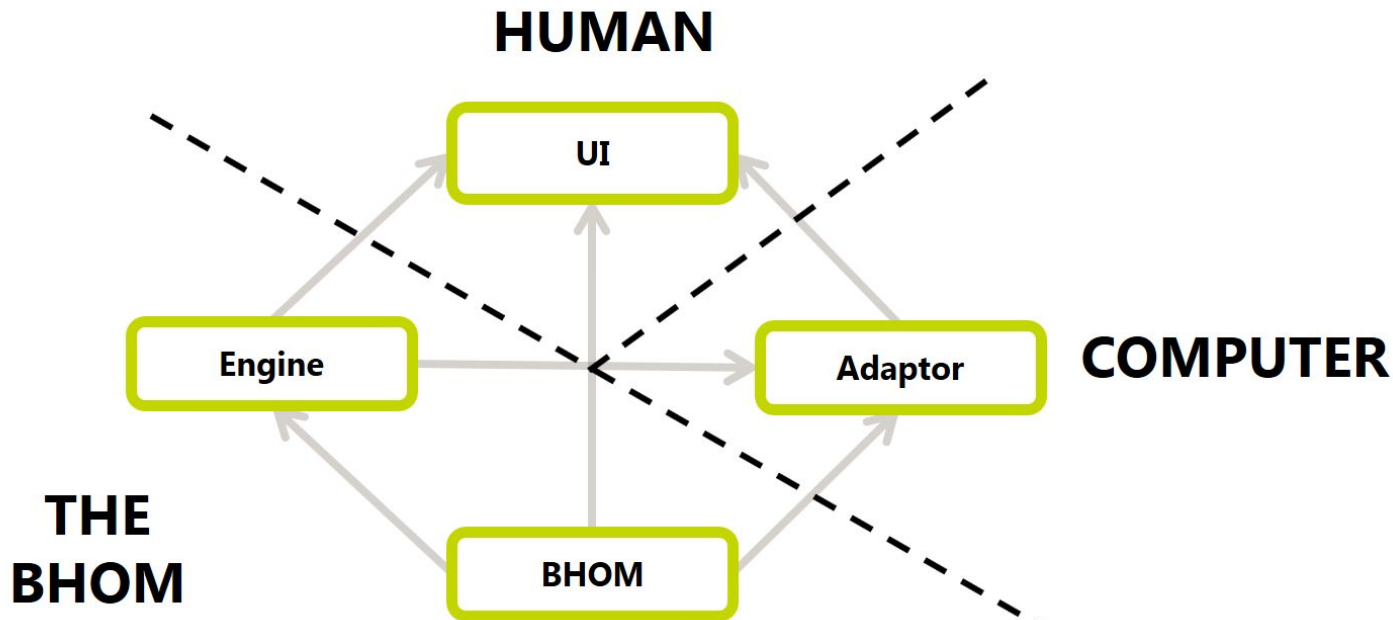
database-
driven

INFO FLOW DIAGRAM

Others

Architect

Structural engineer



Colla
(fire
MEP
cont

Coor

ntation

del

families

database-
driven