

# Getting Specified in a Digital World & Making it Stick

**David Mitchell** 

Chairperson buildingSMART Australasia

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- What's the problem?
  - a little bit of digital history
- Where's the demand?
  - what's changing?
- One solution?
- Who's doing it and how?
- Opportunities?
- Where can you start?



# buildingSMART Australasia

Not-for-profit Industry-led Volunteer Organisation

**Operate in Australia and New Zealand** 

#### **Activities:**

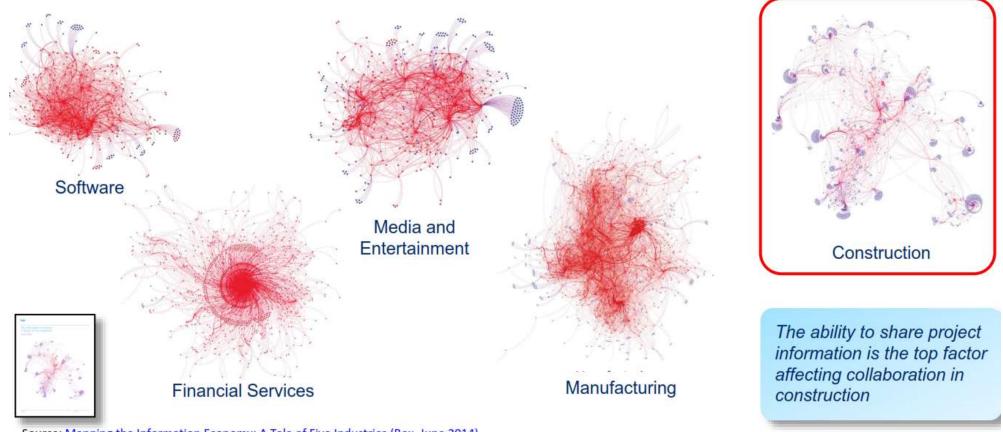
- Technical standards (bSA & bSI)
- Advocates for BIM and Open Data Exchange



## What's the problem?



## Information exchange...



Source: Mapping the Information Economy: A Tale of Five Industries (Box, June 2014)





Expert warns Australia could turn into slums in 20 years | 60 60 Minutes Australia © 3M views



The looming crisis over defective buildings in Australia ABC News In-depth @



Construction crisis to top \$6.2 billion

By Sandra van Dijk | 20 August 2019

Australia's construction industry has reached crisis point. From cracking apartment buildings to massive cost overruns in public infrastructure, there is not one part of the sector that isn't failing in some way.



The much-publicised Opal Tower saga now enters its fifth week of uncertainty with 105 of the buildings 392 apartments declared "unliveable" and structural repairs

Money / Property / Buying /

#### Apartment building defects

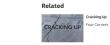
Thinking of purchasing an apartment or unit? Make sure you know what you're buying into.



Image: Four Corners

#### Cracking Up





Investigating Australia's apartment building crisis. We've got a real problem here: it's systemic and it's infecting lats of buildings across the landscape, in all parts of the country. It's very clear: Building defect analyst To 20 years the nations try skylines have been changing with the building of more than 60.000 apartments. Meanwhile > groundhog day

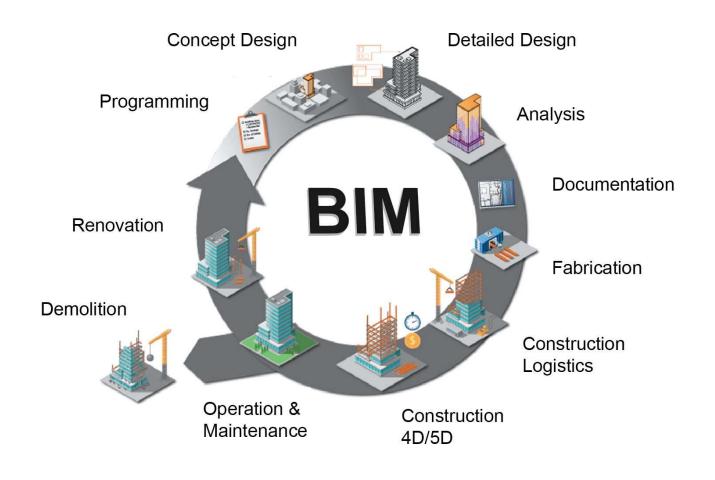
### 2014: Lacrosse Tower Fire, Docklands Melbourne

In ten minutes (2.23 – 2.35AM) the fire spread up the external wall cladding to the roof (L21) from an apartment balcony (L6) whose resident had left a cigarette butt in a plastic food container sitting on a timber surfaced balcony table.

# What's the problem? - some history



# BIM > beta version





# Manufacturers built their own content

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| All Categories   |                                       |                          | Try searching "80 CFM ven          | it fan"                                     |   | 3                                     |  |   |
| Project location           Australia   | Download Free Revit Fa                | milies & BIM Content     |                                    |   |   |                                       | 8  | Sort Results  |
| Manufacturers All manufacturers Project data type                              |                                       | Compare                  | Compare                            | Compare                                     | Compare                                 | Compare                               | Compare  | Compare   |
| R A 9 8 1 3 3<br>3   | ARCHITECT<br>ACCESS D<br>Nystron      | OOR                      | RECESSED ACCESS<br>DOOR<br>Nystrom | LIGHTWEIGHT ACCESS<br>DOOR<br>Babcock-Davis | PLASTIC ACCESS<br>DOOR<br>Babcock-Davis | RENOVATION ACCESS<br>DOOR<br>Nystrom  | DS336 – HIGH<br>SECURITY MANUAL<br>PASSAGE GATE<br>Designed Security, Inc. | ES5200 STANDARD<br>ENTRY SENTRY SERIES<br>Designed Security, Inc. |
| Material Libraries Sustainability & Wellness                                   |                                       | Compare                  | Compare                            | Compare                                     | Compare Compare                         | Compare                               | Compare  | Compare<br>012<br>5 N A   |
| 승 Fire & Life Safety   | -                                     |                          | B                                  |   |   |                                       |  | er ottatsame  |
| <ul> <li>Building Code Compliance</li> </ul>                                   | 24" / 27" SELF<br>SINGLE WALL         | -CLEAN<br>OVEN -         | 24" SINGLE ELECTRIC<br>WALL OVEN   | FIXED EXTENSION<br>COLUMN                   | MULTI-DISPLAY<br>ADJUSTABLE DROP        | REALIS WUX450ST<br>Canon U.S.A., Inc. | SIVIDEO INTERIOR   | SIVIDEO EXTERIOR<br>Sansi North America (SNA)                     |



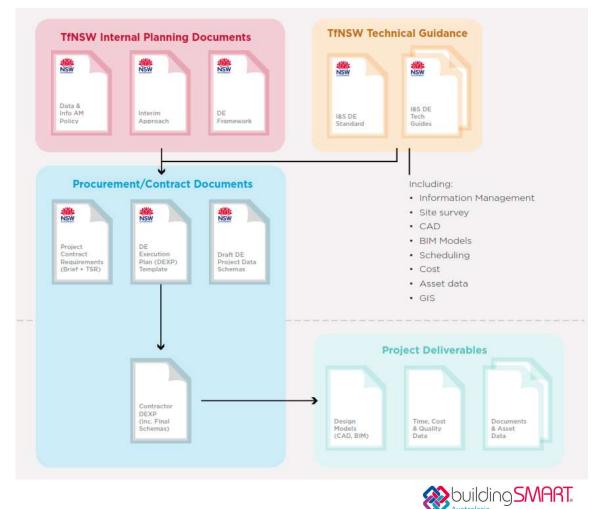
## Where's the demand? - what's changing?



## State Govts are asking for open data

The next four years, Eastern Govt alone will use BIM to deliver **\$210.9B** of major infrastructure projects:

- VIC \$78.9B
- NSW \$87B
- QLD \$45B



# BoT are also calling for it...

# **Board of Treasurers (BoT)** – the Australian BIM Strategic Framework:

- Aug 2019 The framework was endorsed and proposed implementation by all state and territory governments.
- Standardised approach to using BIM in buildings and infrastructure.
- Strategic Action Area Adopt standards and ensure an open and common data environment





### 2019 Mar: BMF released - Building Confidence Implementation Plan

- Regulate Building Certification
- Poor documentation and lack of specifications what was the design intent?.
- Building Certifier allows occupation can't know everything about the building.
- The BCA is performance based and not prescriptive fit for purpose and product compliance is difficult.
- As built information is not recorded –. what products? Did substitution occur?.

Emerging technologies,... It is recommended that further work examine how the Building Information Management (BIM),.... and other similar emerging digital solutions could be relevant to the establishment of these databases."



## ISO 19650: the how...

Organization of information about construction works – Information management using building information modelling:

- Part 1: Concepts and principles
- Part 2: Delivery phase of assets

Overarching principle...Exchange using open standards



International Organization for Standardization





## ... OBOS and GS1 GDS





MRO Identification Standards in the Australian Rail Industry

Case Study Sample: OneSteel - Identification of Steel Products (including rails) using GS1 kevs

In Australia, OneSteel is the premier manufacturer and distributor of long steel products, and is the sole Australian manufacturer of both plain Carbon and head hardened steel rails supplied from the OneSteel Whyalla Steelworks in South Australia.

For some time OneSteel has recognised the supply chain & quality benefits that can be gained from standard product identification & barcoding and has worked closely with GS1 Australia to consistently utilise GS1 keys in the identification of its products. The examples below illustrate how these principles have been applied

STEEL RAILS

Steel rails ex OneSteel Whyalla are individually labelled on the bottom flange of the rail identifying each piece.

The label typically will look like the example below:



The GS1 DataMatrix applied for OneSteel rail uses the following GS1 keys:

| AI<br>Code | AI Type   | Data           | Comments   |
|------------|---|----------------|--|
| 01         | Global Trade<br>Item Number<br>(GTIN)   | 99316183038858 | This is the OneSteel issued GTIN for AS<br>41kg Plain Carbon Steel Rail produced in<br>13.72m lengths to OneSteel Rail Technical<br>Standard RT23, supplied undrilled & with a<br>length tolerance of +150mm / -0mm                |
| 11         | Production<br>Date<br>(YYMMDD)  | 150609         | Production date: 9th June, 2015  |
| 21         | Serial<br>Number  | 54903214A      | This is the combination of the cast, or<br>heat, of steel and the production identity<br>of the feed length of rail.   |
| 250        | Secondary<br>Serial<br>Number   | 64869          | The secondary serial number indicates the<br>individual identity of the rail length cut<br>from the production identity & combined<br>with the Serial Number & GTIN gives the<br>unique identity of the individual rail<br>length. |
| 3112       | Length or<br>first<br>dimension,<br>metres<br>(Variable<br>Measure<br>Trade Item) | 001372         | This is the length of the rail in metres, the<br>"2" in the AI (3112) string indicates that<br>the decimal point sits between the 4th &<br>5th digit ==> 13.72m.   |

Release Version 1.0\_22 November 2016

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# What's one solution for Industry?



## Standards working together (bSA + GS1au & BIM-MEPaus)

&buildingSMART.

Design to manufacture and product identification using:

- BIM-MEPaus standards—for design, manufacture and construction workflows
- GS1 standards—for product identification
- openBIM (.ifc) standards—for information exchange

Allows traceability and product authentication to:

- Check products against specifications
- Identify recalled products
- Minimise product failures



This Memorandum of Understanding (MOU) is entered this 14 February 2019 between buildingSMART Australasia Ltd (ABN 96 021 754 479) (**bSA**), with its registered office at 1 Creek Street Forrest Lodge. New South Wales. 2037 and GS1 Australia Ltd (ABN 67 005



# Create design models using object standards...

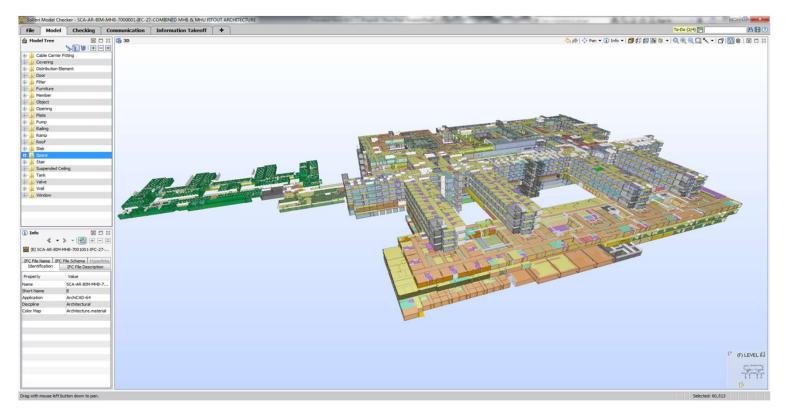




Image courtesy of Mitchell Brandtman

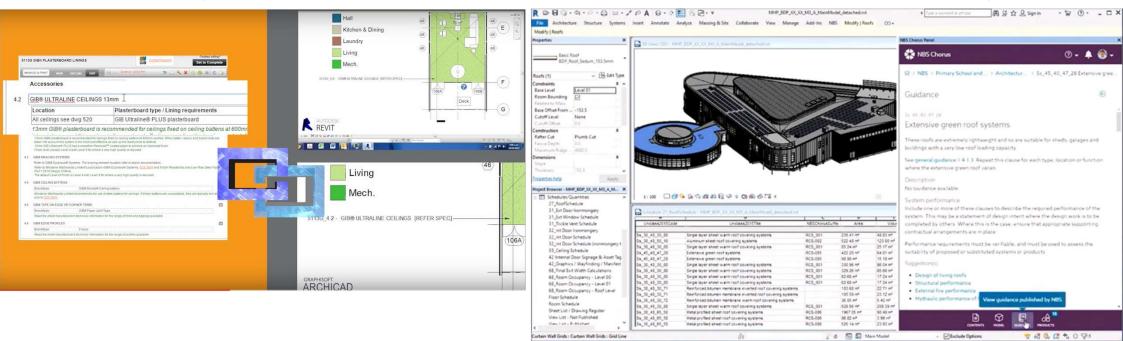
# Link specifications to models...

#### Masterspec NZ:

#### NBS UK:

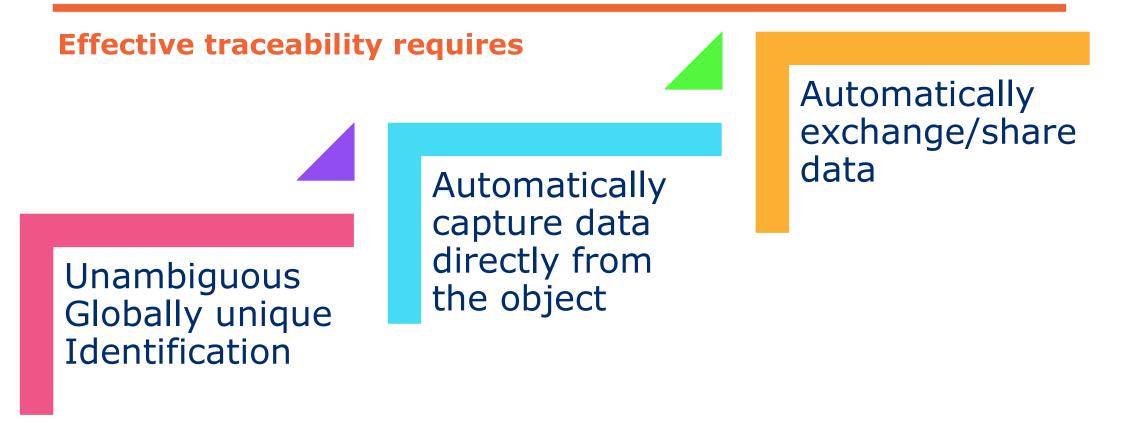
#### MasterKey & miProducts

#### Chorus & National Product Library





## Specify GS1 GTIN to be clear about design intent...





The Global Language of Business

© GS1 Australia 2017

# ... Transfer design data via openBIM...

#223452= IFCSHAPEREPRESENTATION(#492, 'FootPrint', 'GeometricCurveSet', (#223450));

- #223454= IFCPRODUCTDEFINITIONSHAPE(\$,\$,(#223429,#223452));
- #223458= *IFCSPACE*('1yOlZoXEX02gxvYfh8N0VX', #12, 'J.2.1', \$, \$, #223340, #223454, 'Prep Room', .ELEMENT., .INTERNAL., \$);
- #223461= IFCRELAGGREGATES('1b306uOlB0mAob6pHt uM2',

#12,\$,\$,#223233,(#223458,#223593,#223714,#223813,#224440,#225109,#225263,#225395,#225638,#225814));

- #223465= IFCPROPERTYSINGLEVALUE('Reference', \$, IFCIDENTIFIER('Prep Room J.2.1'), \$);
- #223466= IFCPROPERTYSINGLEVALUE('Category', \$, IFCLABEL('Rooms'), \$);
- #223467= IFCPROPERTYSET('2AzzsgQgy\$G1psq0YB Dq6',#12,'Pset SpaceCommon',\$,(#223465,#223466));
- #223469= IFCRELDEFINESBYPROPERTIES('OWuIHQol zDYKhcwIjJQS6',#12,\$,\$,(#223458),#223467);
- #223473= IFCPROPERTYSINGLEVALUE('Renovation Status',\$, IFCLABEL('New'),\$);



### Capture as-built: Use GS1 GDS to identify products



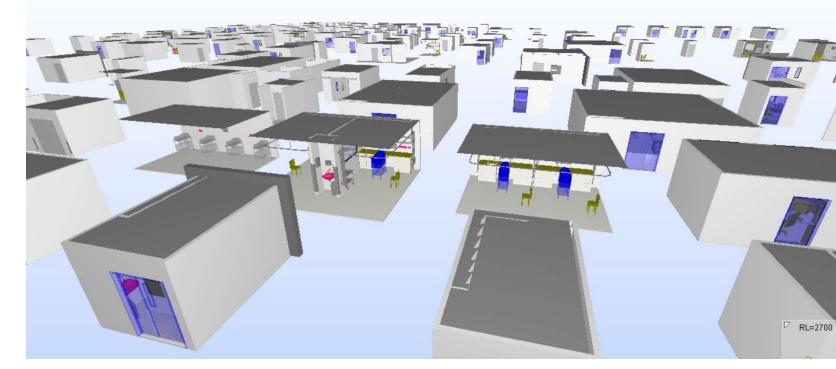
# Who's doing it and how?



# Digital Design Kits & Objects

Design requirements – models & objects:

- Coles & Woolworths
- Health Infrastructure NSW
- Roads and Maritime Services NSW





# **Digital Product Libraries**

#### SIEMENS Ingenuity for life

Case studies

Kingspan Thermaroof

TR26 LPC/FM - Flat

roof insulation

Download BIM objects for insulation boards, cavity closers and membrar

### Manufacturers:

Siemens & Schneider Electric

About Kingspan

Thermapitch TP10

TR24

- Knauf
- Dulux •
- Kingspan & Stowe



#### Download BIM object library

Dulux Specifier

Search f

These objects are the building blocks that form the foundations of the BIM Colour Products Services & Programs Find a store Shop Building Technologies provides an ever expanding library of BIM objects ref of our broad portfolio. Free to download and complying with several indus formats, the library is available in conjunction with a powerful plug-in to fa

Resources Training

### **Dulux BIM Solutions**

NBS National BIM Library Revit<sup>®</sup> & ArchiCAD<sup>®</sup> projects quickly and simply. Kingspan Kooltherr Kingspan Thermafloo K103 Floorboard K106 Cavity Board K108 Cavity Board K110 Soffit Board K5 External Wall **TF70** K15 Rainscreen

Kingspan Thermawall

TW53

Kingspan Thermaroof

roof insulation

TR27 LPC/FM - Flat TW50

Kingspan Thermawall Kingspan Thermawall **TW55** 





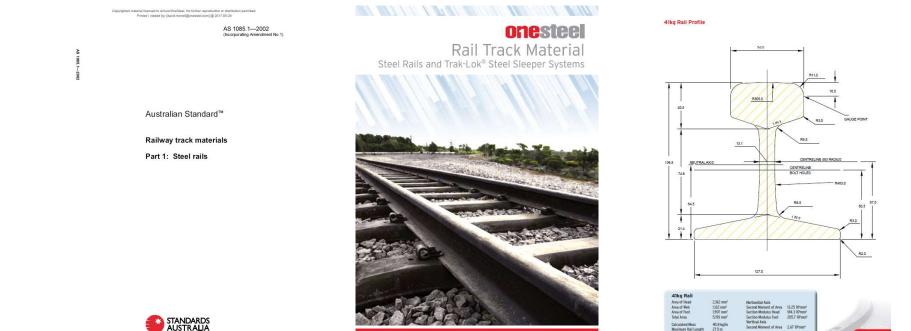


#### WHAT THE SCANNER SEES



| Al<br>Code | АІ Туре   | Data           | Comments  |
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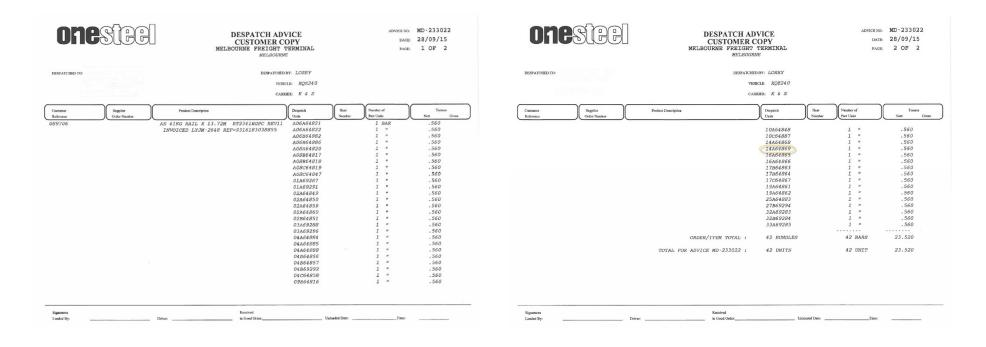


www.infrabuild.com

InfraBuild

29 Slide courtesy of Infrabuild

#### WHAT THE SCANNER UNLOCKS





www.infrabuild.com

#### WHAT THE SCANNER UNLOCKS

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| Link to POD   | View POD Image 1  |  |  |   |              |                    |
| POD links not working?  | View POD Image 2  |  |  |   |              |                    |
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| /09/2015 5:31:00 PM   | Local Task In Transit   | MD2330   |  |   |              |                    |
| /09/2015 5:32:00 PM   | Local Task Completed  | MD2330   | 22   |   |              |                    |
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| ~        | docum            | ers of dir re | or one rep | 0000201  | week in |         |           |            |            | Minerals Pty Ltd, Whyalla0834<br>roved Signatory - K. Barsby |           |
| TEELMA   |                  | sic Oxygen    | - Sinh (   | act      |         |         | -         |            | 1998       | INSPECTI   | ON: Sum   |
| PECIFIC  |                  | 23 Rev1       |            | aol      |         |         |           |            |            | CERTIFICATI  | ION: SUDD |
| RODUC    |                  |               | ore        |          |         |         |           |            |            |  |           |
|          | 22.3             |               |            |          |         |         |           |            |            |  |           |
|          | COVERED E        |               |            | ERTIFI   |         |         |           |            |            |  |           |
| item     | Heat             |               | ustomer    | 2        | Leng    | th      |           |            | Unit Id    | entities   |           |
| No       | NO               |               | Order      |          |         |         |           |            |            |  |           |
| 0006     | 549008<br>549012 |               | 089706     |          | 13.7    |         |           | -A- 000 34 | I-B- 000 3 | 5-B- 000 35-C- 000   |           |
| 0006     |                  |               |            |          | 13.7    |         | A- 000    |            | 0004-000   |  |           |
| 0006     | 549013           |               | 089706     |          | 13.7    |         | B- 000    |            |            |  |           |
| 0006     | 549024           | 6             | 089706     |          | 13.7    | 06-     | A- 000 00 |            | -A- 000 0  | 3-A- 000 04-A- 000 04-B- 000<br>8-B- 000 08-C- 000 05-B- 000 |           |
| 0006     | 549026           |               | 089705     |          | 13.7    |         |           | -C- 000 1  |            | 240-000  |           |
| 0006     | 549030           |               | 089706     |          | 13.7    |         | 4-000     | 0 000 11   | 10 000     |  |           |
| 0006     | 549032           |               | 089706     |          | 13.7    |         |           | -A- 000    | -A- 000 1  | 7-8-000 17-C-000   |           |
| _        | -                |               |            |          |         | 12      | -         | -          |            |  |           |
|          | CAL ANALY        |               |            | (I =Cast | D-Produ | rt -S-S | niuble -T | -Total CE  | -Chemica   | i Formula, n=Min, x=Max)                                     |           |
| Item     | Heat /           | NATA          | LP         | C        | P       | Mn      | SI        | S          | CF1        | S 5 5  |           |
| No       | Unit No          | Lab           | 1700       | - 8- x   |         |         |           | - 550      | 100        |  |           |
| 0006     | 549008           | 0834          | L          | .61      | .016    | .70     | .230      | .015       | .75        |  |           |
| 0006     | 549012           | 0834          | L          | .61      | .012    | .72     | .250      | .016       | .75        |  |           |
| 0006     | 549013           | 0834          | L          | .61      | .016    | .69     | .230      | .014       | .74        |  |           |
| 0006     | 549024           | 0634          | L          | .62      | .011    | .71     | .240      | .017       | .76        |  |           |
| 0006     | 549026           | 0834          | L          | .62      | .009    | .69     | .230      | .019       | .75        |  |           |
| 0006     | 549030<br>549032 | 0834          | L          | 62       | .012    | -70     | 250       | .019       | .76        |  |           |
| 0006     | 549032           | U634          | L.         | .03      | .012    | _/1     | 230       | .015       | 31         |  |           |
| F1-C+    | Mrv/5            |               |            |          |         |         |           |            |            |  |           |
| 20.70    | 3.9365           |               |            |          |         |         |           |            |            |  |           |
| COMMENT  | ENTS             |               |            |          |         |         |           |            |            |  |           |
|          |                  |               |            |          |         |         | OBAL LIG  |            |            |  |           |

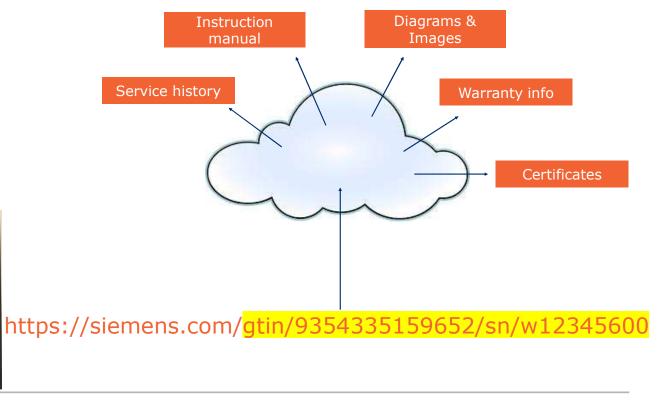
### Siemens Mobility – traceability in action

 $\infty$ 

### **GS1** Digital Link - Web enabled *next generation* barcodes







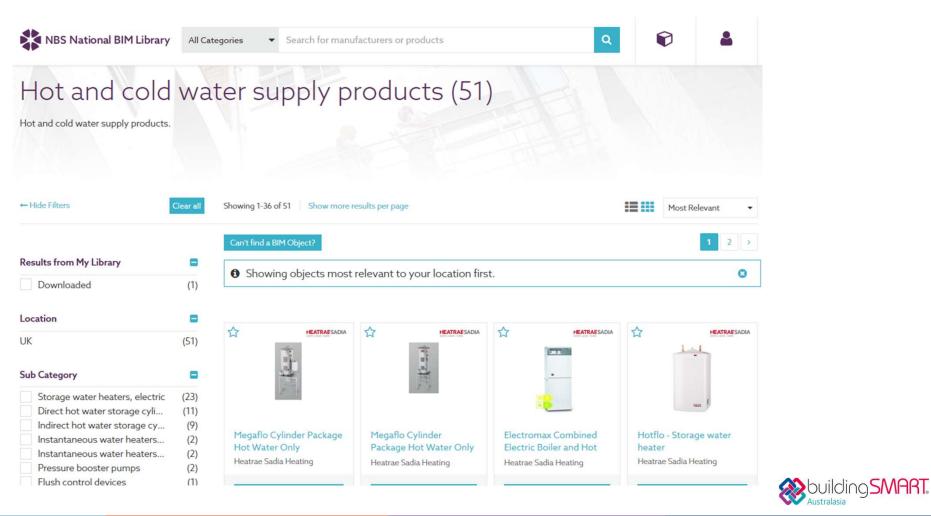


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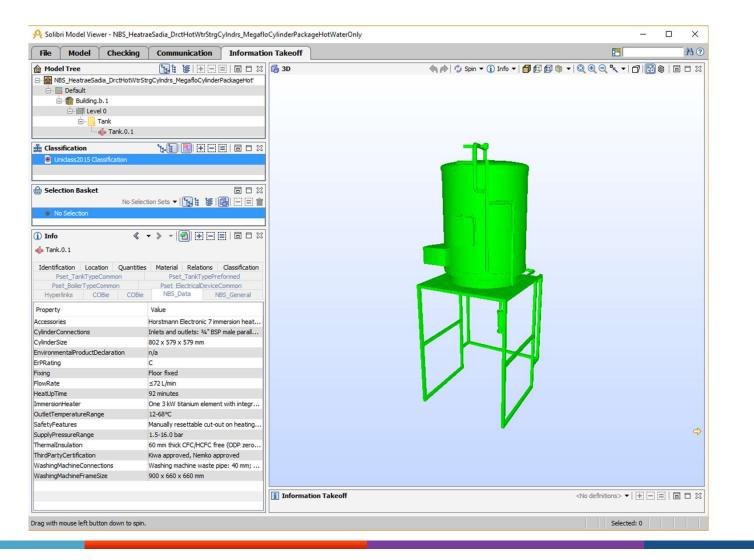
# Where are the digital opportunities?



# Get Specified via Libraries



## Become famous for useable content





# and intuitive plugins...



| Internal Steel Stud Walls 🗸 S   | Select Sub Type       | ~  | Select Cod                                    | le                  | ~   |   |   | Chec  | k for updat                          |
|---|-----------------------|--|---|---------------------|---|---|---|---|--------------------------------------|
| System Filter   | Syste                 | ms   |   |                     |   |   |   |   |                                      |
| Reset System Filters  | Viewing               | 5970 Results - Click rov   | w to view System [                            | Details             |   |   |   |   |                                      |
| Properties Composition<br>Reset Property Filters  | System<br>Code        | Fire Protection  | Non-Load<br>Bearing FRL                       | Load Bearing<br>FRL | Rw  | Rw+Ctr  | Impact Sound<br>Resistant   | Total<br>thicknes<br>s (mm)   | Total R-<br>Value<br>(m2.K/W)        |
| Reset Property Pillers  | KSW317                | Rated from both sides  | -/120/120                                     | 120/120/120         | 55  | 48  | No  | 128.0   | 1.7                                  |
| otal thickness (mm) 🔇   | KSW317                | Rated from both sides  | -/120/120                                     | 120/120/120         |   |   | No  | 128.0   | 1.7                                  |
| Not Specified   | KSW212                | Not rated  | -/-/-   | -1-1-               |   | 47  | No  | 190.0   | 1.6                                  |
| Hot opening   | KSW331                | Rated from both sides  | -/90/90                                       | 30/30/30            | 59  | 51  | Yes - Discontinuous<br>Construction   | 243.0   | 4.0                                  |
| re Protection   | VCM303                | Rated from both sides  | -/120/120                                     | 60/60/60            | 59  | 51  | Yes - Discontinuous<br>Construction   | 256.0   | 1.7                                  |
|   |                       |  |   |                     |   | W. 11   | Construction  |   |                                      |
| Any   | <ul> <li>✓</li> </ul> | Construction and an and an and an and an and an and an |   |                     |   |   |   |   |                                      |
| -   |                       |  | otions  |                     |   |   | Output to PDF   | F Add to  | Project                              |
| ion-Load Bearing FRL (2)  | ~                     |  | otions  |                     |   |   | Output to PDF   | F Add to  | Project                              |
|   | ~                     |  | otions  |                     |   |   | Output to PDF   | F Add to  | Project                              |
| Non-Load Bearing FRL 🔊  | ~                     |  | bitions                                       |                     |   |   | 1991  | F Add to  | Project                              |
| Non-Load Bearing FRL 📀  | ~                     |  | ptions  |                     |   | mm FireShield<br>mm MaslaShie   | 1   | F Add to  | Project                              |
| kon-Load Bearing FRL (2)<br>Any<br>.oad Bearing FRL (2)<br>Any  | ~                     |  | bions   |                     |   |   | 1   | Add to  | Project                              |
| Any Coad Bearing FRL (2)<br>Any Coad Bearing FRL (2)<br>Any Coad Bearing FRL (2)<br>Any Coad Bearing FRL (2)            | System                |  | Composition                                   |                     |   |   | 1   |   | Project                              |
| Any   | System                | Details Framing Op   |   |                     | ی رق ۱۵<br>۱6mm Truf  | mm MastaShie  | a<br>aid<br>System  |   |                                      |
| Any   | System                | Details Framing Op   | Composition                                   |                     | 16mm Truf<br>10mm Mas<br>16mm Fire!                                       | mm MastaShie<br>tock plus<br>taShield<br>Shield plus  | System<br>1. Fire Rt<br>2. Acous  | Notes<br>eport: FC113<br>tics Report:   | 115-001                              |
| Any   | System                | Details Framing Op   | Composition<br>Side 1 Lining                  |                     | (5) 10<br>16mm Truf<br>10mm Mas<br>16mm Fire!<br>10mm Mas<br>Double ste   | rock plus<br>taShield<br>Shield plus<br>taShield<br>el studs at i                                 | System<br>1. Fire Ru<br>2. Acous<br>Design<br>3. 16mm   | Notes<br>eport: FC112<br>tics Report:<br>3094-33<br>FireShield c                                  | 315-001<br>Day<br>an be              |
| Ion-Load Bearing FRL (2)<br>Any<br>oad Bearing FRL (2)<br>Any<br>w (2)<br>Not Specified<br>w + Ctr (2)<br>Not Specified | System                | Details Framing Op   | Composition<br>Side 1 Lining<br>Side 2 Lining |                     | 16mm Truf<br>10mm Mas<br>16mm Fire!<br>10mm Mas                           | mm MastaShie<br>Cock plus<br>taShield<br>Shield plus<br>taShield<br>el studs at i<br>ntres with m | substitution<br>System<br>1. Fire Rr<br>2. Acous<br>Design<br>3. 16mm<br>substituti<br>MultiS | Notes<br>eport: FC113<br>tics Report:<br>3094-33<br>FireShield c<br>tuted with 14<br>hield or 16m | 315-001<br>Day<br>an be              |
| Non-Load Bearing FRL (2)<br>Any<br>Load Bearing FRL (2)<br>Any<br>Rw (2)<br>Not Specified<br>Rw + Ctr (2)               | System                | Details Framing Op   | Composition<br>Side 1 Lining<br>Side 2 Lining |                     | 16mm Truf<br>10mm Mas<br>16mm Fire<br>10mm Mas<br>Double ste<br>600mm cer | mm MastaShie<br>Cock plus<br>taShield<br>Shield plus<br>taShield<br>el studs at i<br>ntres with m | sid<br>System<br>1. Fire R<br>2. Acous<br>Design<br>3. 16mm<br>substit<br>MultiS<br>TruRoc    | Notes<br>eport: FC113<br>tics Report:<br>3094-33<br>FireShield c<br>tuted with 14<br>hield or 16m | 315-001<br>Day<br>an be<br>imm<br>im |



# Transform design models into workshop models

#### **Prior Situation:**

- BIM focus is to enrich design models
- Prefabrication processes are not deeply integrated
- Information is lost
- Precast CAD and MES (manufacturing execution systems) interfaces are inflexible

## ifc4 Project - interface for automated precast parts fabrication:

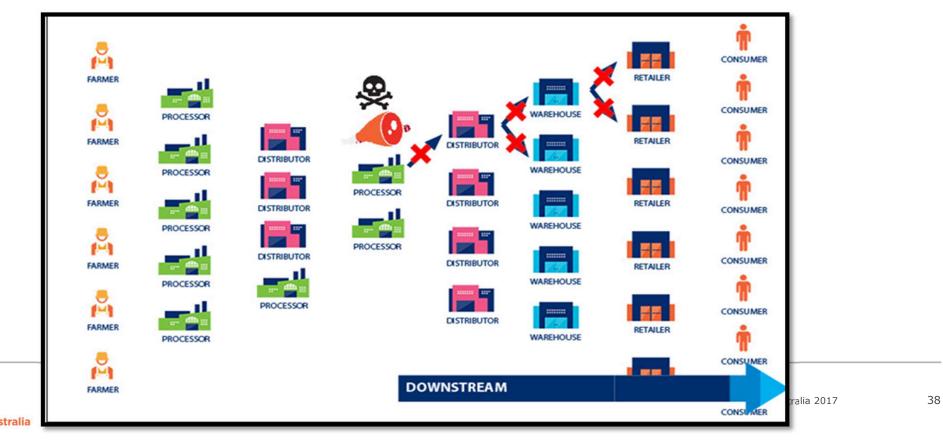
- fdu + Betonwerk Eslohe-Bremke + IDAT & ProgressGroup
- Better link CAD, MES and PPS systems on a common data exchange
- Improve traceability of data over the building model and building cycle.



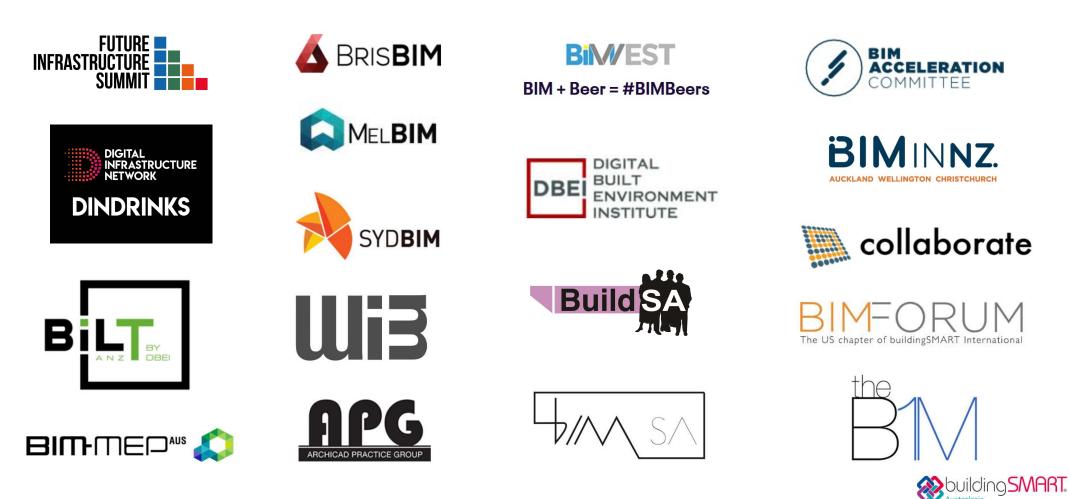


#### Help construction teams by sharing logistics

• **Tracking** is the capability to follow the path of a specified unit and/or batch of units downstream through the supply chain as it moves between trading partners.



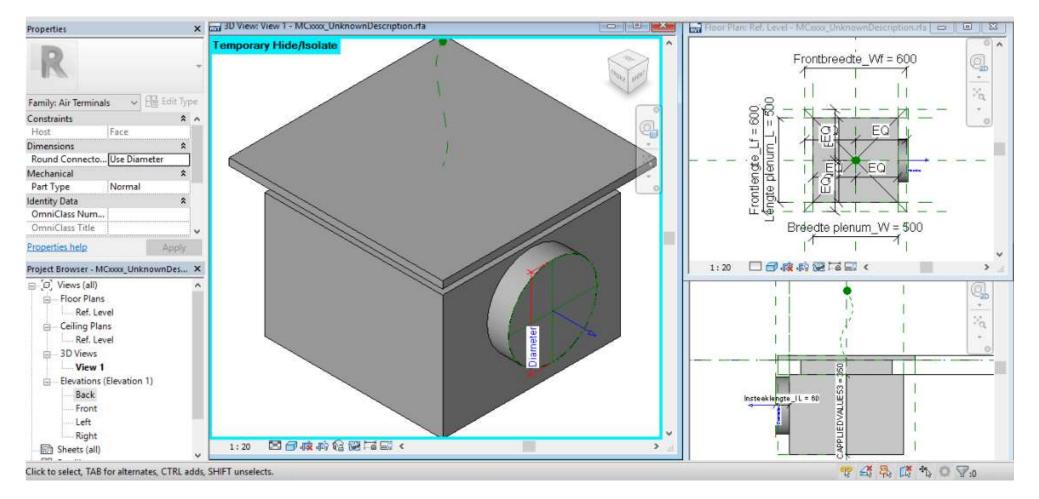
## Engage in new ways via communities



### Where can you start?



## Develop native content incl GS1 GTIN





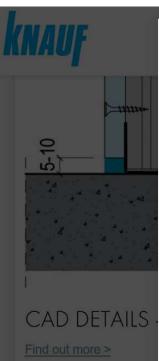
## Convert to open content

| File Model Che              | ecking Communication      | Information Takeoff            | E   | #1 ?     |
|-----------------------------|---------------------------|--------------------------------|---|----------|
|                             |                           |                                |   |          |
| Model Tree                  |                           | 🗐 🗖 🖾 🚰 3D                     | 🦏 🎓   🍫 Spin 🕶 🕕 Info 🕶   🗗 😥 🎒 🖤   🍳 🍳 🥄 🔫   🗗 🔡 🛞 |          |
| 3. BIMsmith Sliding Wall_h  | swbU-ttc                  |                                |   |          |
| Classification              | <b>بری</b> ا              |                                |   |          |
| - 🛞 UniFormatClassification |                           |                                |   |          |
| Selection Basket            | No Selection Sets 🕶 🔀     |                                |   |          |
| No Selection                |                           |                                |   |          |
| i Info                      | < - > - 🔁 🛨 🖃             |                                |   |          |
| Door.0.1                    |                           |                                |   |          |
| Hyperlinks Analytical       |                           | dentity Data<br>Classification |   |          |
| Property                    | Value                     |                                |   |          |
| Model                       | BIMsmith Sliding Wall_hsw | 50-ifc                         |   |          |
| Discipline                  | Architectural             |                                |   |          |
| Name                        | DOO - 001 2792:DOO - 00   | 1 2792:DO                      |   |          |
| Гуре                        | DOO - 001 2792:DOO - 00   | 1 2792                         |   |          |
| Description                 |                           |                                |   |          |
| Operation                   | Undefined                 |                                |   |          |
| ayer                        | A-DOOR                    |                                |   |          |
| Geometry                    | Boundary Representation   |                                |   |          |
| Building Envelope           | False                     |                                |   |          |
| GUID                        | 11VhuEyob3axqwW5rz92      | /P                             |   |          |
| BATID                       | 181777                    |                                |   |          |
|                             |                           |                                | Grou  | und Flo🕅 |
|                             |                           |                                |   |          |
|                             |                           |                                |   | ß        |
|                             |                           | Information Takeoff            | <no definitions=""> 🔻 📑 🚍 📕</no>                    |          |



# Build your own libraries

Products



Revit® users can now filter and select from over 650,( <sub>Colour</sub> the touch of a button, directly from within Autodesk Resystem with a specific acoustic rating, FRL and therm framing needs, the Knauf Revit® API can recommend compliant with Australian New Zealand Revit Standard

To download the NEW 2018 Knauf Revit® API simply

#### First Name \*

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Company Name \*

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### Share it - leverage other libraries

| favourites here, select $\not\simeq$ then $\Rightarrow$ , and drag to the Favourites Bar fo | lder. Or import from another browser. Import fav | ourites                            |   |   |                                       |  |   |
|---|--|------------------------------------|---|---|---------------------------------------|--|---|
| 🕽 🤝 market  |  |                                    |   |   |                                       | BLOG NEWSROOM  | i contact 🎦 davi  |
| All Categories  |  | Try searching "80 CFM ven          | it fan"                                     |   | 3                                     |  |   |
| Project location (Australia   | bownload Free Revit Families & BIM Cont          | ent                                |   |   |                                       |  | Sort Results  |
| Manufacturers Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye  | Compare  | Compare                            | Compare                                     | Compare                                 | Compare                               | Compare  | Compar  |
| roject data type<br>R A 🔋 🏽 7 3 💆   |  |                                    |   |   |                                       |  |   |
| Material Libraries  | ARCHITECTURAL<br>ACCESS DOOR<br>Nystrom          | RECESSED ACCESS<br>DOOR<br>Nystrom | LIGHTWEIGHT ACCESS<br>DOOR<br>Babcock-Davis | PLASTIC ACCESS<br>DOOR<br>Babcock-Davis | RENOVATION ACCESS<br>DOOR<br>Nystrom  | DS336 – HIGH<br>SECURITY MANUAL<br>PASSAGE GATE<br>Designed Security, Inc. | ES5200 STANDARD<br>ENTRY SENTRY SERIE:<br>Designed Security, Inc. |
| § Sustainability & Wellness   | Compare  | Compare Compare                    | Compare                                     | Compare                                 | Compare                               | Compare  | Compa<br>(20:12)  |
| en Safety   |  | 0                                  |   |   |                                       |  | SIN A DELOS   |
| Dillding Code Compliance  |  |                                    | I   |   |                                       |  | And I   |
|   | 24" / 27" SELF-CLEAN<br>SINGLE WALL OVEN -       | 24" SINGLE ELECTRIC<br>WALL OVEN   | FIXED EXTENSION<br>COLUMN                   | MULTI-DISPLAY<br>ADJUSTABLE DROP        | REALIS WUX450ST<br>Canon U.S.A., Inc. | SIVIDEO INTERIOR<br>Sansi North America (SNA)                              | SIVIDEO EXTERIOR<br>Sansi North America (SNA)                     |



# Physical identification



https://data.gs1.org/gtin /950700009060/

## Digital identification



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### Want to know more?



# Digital Supply Chains in the Built Environment

25 March 26 March 28 April

Sydney Melbourne Brisbane

REFENSE Tickets: www.buildingsmart.org.au/notify-me Proudly sponsored by:





#### **BIM/DE Community Noticeboard**

MAF

23

MON

26

APR

3

#### 01:00 pm

Ticket, agenda TBA. Sign up here to be notified: www.buildingsmart.org.au/notify-me

26

MAR

26

All-dav

#### **Build-SA BIM Breakfast** 08:00 am



**Digital Supply Chains** in the Built Environment seminar (Melbourne) @ Australian Institute of Architects (Melbourne) 03:00 pm

buildingSMART International Standards Summit. Oslo - 2020 @ Thon Hotel



See bSI's event website for updated details here:

https://www.buildingsmart.org/event/inte rnational-standards-summit-oslo-2020/

Masterspec Specification Workshop (Auckland North) @ Tauranga **Yacht Club** 09:00 am

on 8 Stages (details below). Over 350+ exhi ...

MAR **Digital Supply Chains** 25 in the Built **Environment seminar** (Sydney) @ Willow 03:00 pm



Get notified here: https://buildingsmart.org.au/notify-me/

7

APR 14

buildingSMART **International Chapter** Leaders Monthly Call @ GoToMeeting 10:00 am

buildingSMART

accurate way, we il also be covering the follo ...

Masterspec

Centre 10:00 am







**Training Events 2020** 

This training event focusses on the basics of specifying with Masterspec. We'll cover how to create a quality specification in the most efficient and accurate way. We'll also be covering the follo ...

Masterspec Specification Workshop (Auckland)

www.buildingsmart.org.au/events-calendar



7

# Final Words

Choose open data formats and share it to:

- Improve data exchange, storage and traceability
- Link design to manufacture systems

#### Get specified by:

- Leveraging libraries
- Having useable & intuitive content

#### Make your product stick by:

- Improving logistics at construction sites
- Combating substitution via product identification
- Supporting validation and recall

