

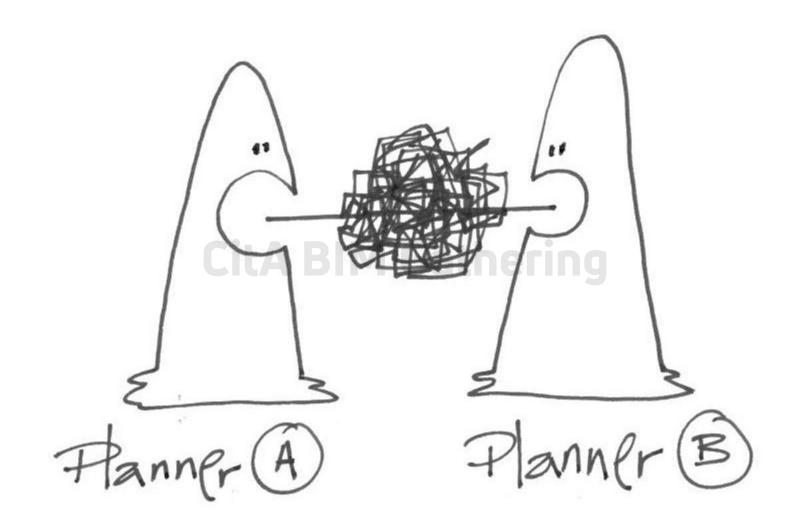
buildingSMART: the openBIM workflow



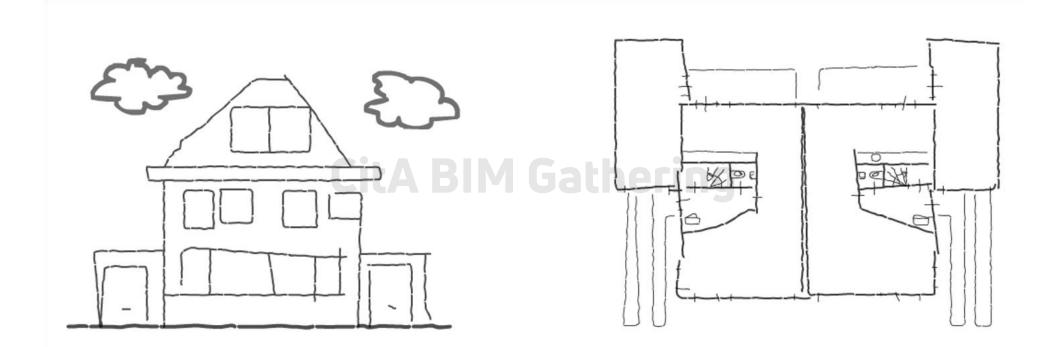
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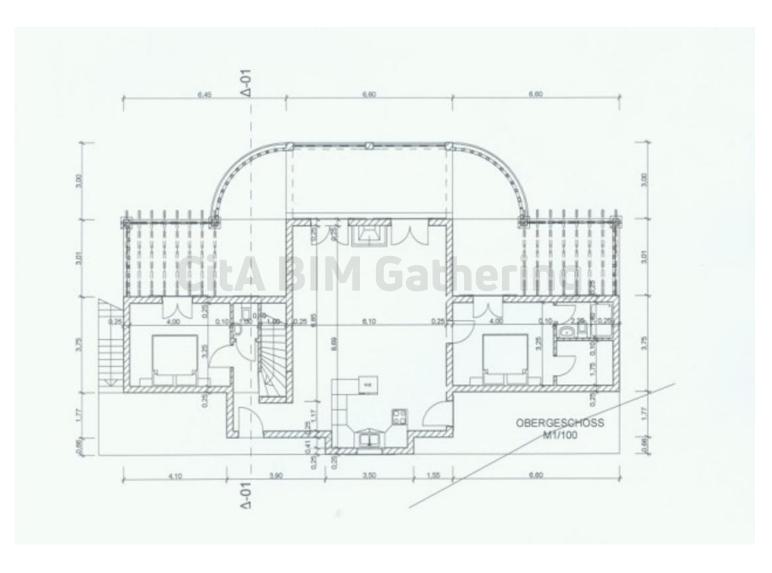








We got standards





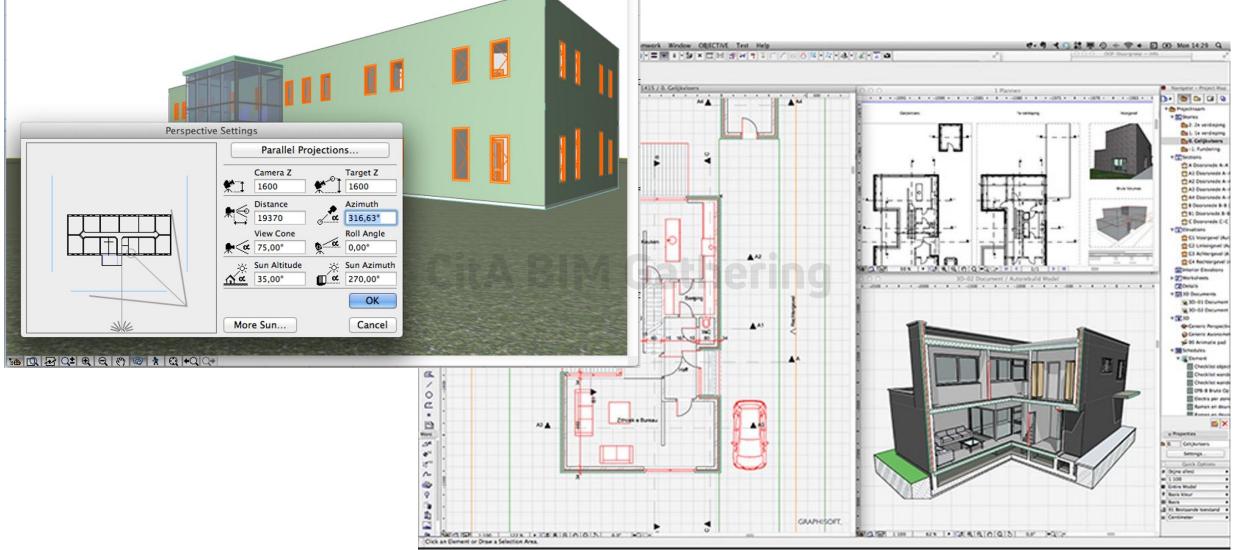


We got digital





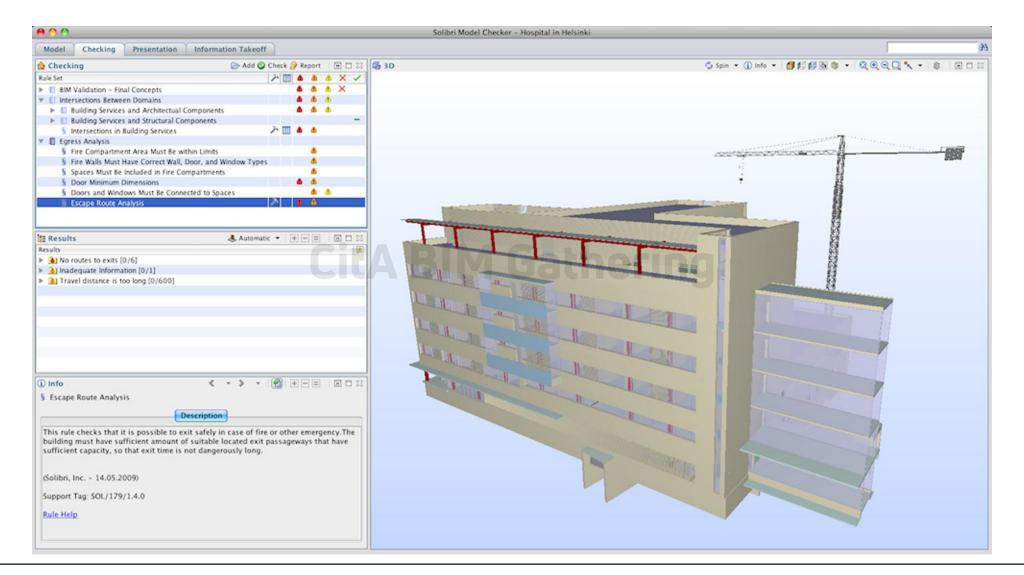




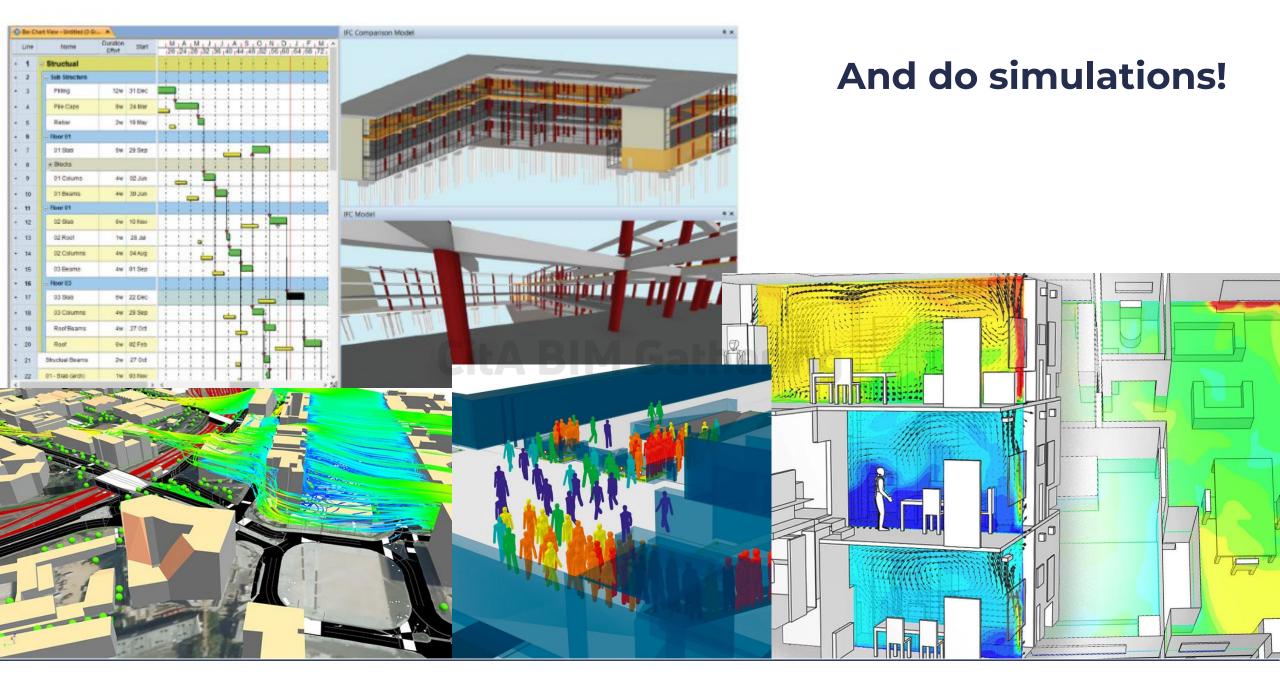


Office_SANS 3D / All

Now we can automate tasks!









Why are data standards so BIM Gathering important?



Why are data standards so BIM Gath Because data agreements are standardized, computers can important?

Same interpretation

How do you call that floor piece in a staircase? Is it part of a stair? Or a Floor? It makes a difference when budgeting!

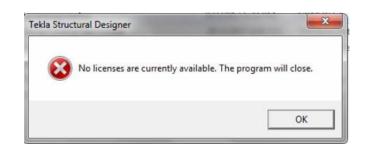
Automatic processing

automatically process it. So you can get the computer to work for you. Fast.

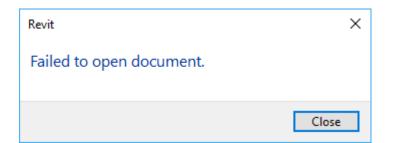
Comparison and learning

Analyze the data over multiple project to be able to learn and improve your workflows and deliverables.



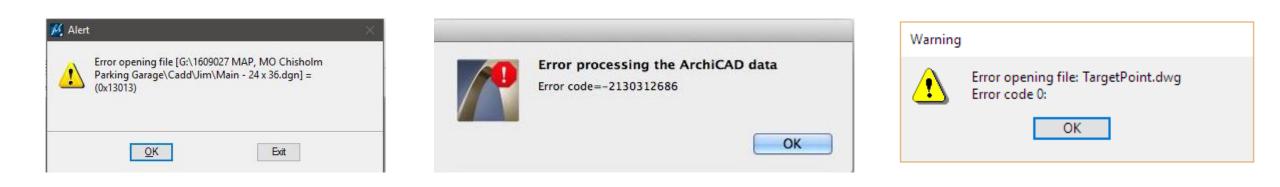


oh wait....





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📄 ROOT Archicad Design Model Schependomlaan.pla

ROF FDB NUT FDG = 164 H8ÊÛ † aB¥&*j)oıi≥+x©¥*C,,G®Oè_É⁻]+ç∉'±ÇägËiCsÁ"I %/ul) ~MÄfjÍIFEÒ¬ f@cæHaflYO¶rÖ≈_f≤Ω)cAùCö±É§fŒ+BLÍ ≥Ä\$%A>içπE•.»m 'åÄO‡9^−Ö″,LÜOÜ>Af@/Söü∯ÓOµŸS(Cí>"...&‡9^−Ö″,LÜOÜ>Af®+&a°edWF≥(ë}"'€:+.Á8ëb∑`AMó"√àÛA+6ÓXÆ ^;:OÔÖYfœ1»+>hküwmööGNŐ]rD},I`»&oèÖf:∫∉Fùá?G≥TÂyfFö+@∞çCLí"pÍI¬>Ìh≠ïh; *HÂ,av'b≈`≥oJ″«∑Nπ‡ʿMF◊).Áwd[ejVNA±:yuJ°√çÂã Å«'HÔOFOÆd,°K.]Âñ Å= HÔOFOÆd,°K.]Âň) εφαθμερφύΑ Α⁺2δ°ä[−]−4t_Fü−'`xí#,Ì∏òfœaïiLB]é_#ï≤fi`∏BLÍ″≥Äg»°{12CòpúßxIÃÔfi üı¨Nó∞″±≻π\$æ/SöüªóΩμŸS(Cí>`…&fi üı¨Nó∞″±≻π\$æ+&−ú=yM£´J≤íÉ∫[Ò;å+.jKÒ0¿q... Į≥¶ĖŸ''≻+6+æ§∂@#őĶã″œ,∣@+>o´çœ0JªàáÉ″∫ø7Ï..&[Õí∞äčÜDÅfiÓfi Àkfrĭ©Cn FÜπX™"™Ìc>ä¥\ÑÆoAßͱ&7 'Ó≈[ÑfóË•†Eøúl.<ãìÜÁFÆ—l*z∫øI∞gıù€Âå ZÅ◊6ô ÒDà~?,öY<Âó <u>p-ôL,¶Mi§séÑ«ŸÌ¢>»″tÒiF≥F″B″'SÌn{W°2Ä</u>SøOÅ÷Å−v`ªfi`πBLÍ″≥Ä© ÉB/≤Géu`9yä‰á,xx‰B°Bí%ÈÁ[Z√Ő/SöüªóQµŸS(Cí>¨Àg 、xx‰B°Bí%ÈÁ[Z√Ő+'efBtó°JệệÜЁ&+Œ• öĕgőDQ&>Í«¨+/∏? UêL°CºM£°†ù+ÉÔ∑ØÛrB∞|yu=″öÏ %\∏ÉÀ^ LCãâ≤∖<ê£åfE÷′V<ÅTAù1» [™]FC≈_å`S =FGìÏVõ *jBL#Ĩ`≥Ӓ≤<u>ììQéá</u>™0¨ÂA†ÍmúSµ[flLÜz*∫ŸıH∕SöüªóQµŸS(Cí>¨−£、œ*{™SL¨!f[f}≈"-"\$€©s®∫<u>Lçi</u>*∆;Ç?-ËÿZ_Õ DµÄcÜà(8-]€"# FC≈ å`S Nòiéwi *Ù-lïG-o@¶>ê,I/÷-#e.…ï @√CD,60UG`**e****_TāMbŪ,I†ögú3.@‡*1=(s"WY@cKıe ^a+8VYāÁ∏¬NəyÌ8s≤+?,ÂíπĖĂĊ¢ô>–Ä∆+FàfôÀÏHµAîxÀÆË4N"+MgéHÿb»ÊKÄPö‡M+π•.T)múSµ[fiLÜz*∫ŸıH–}∑\L,∫–ÊL¥ÎY±x¬º–Ñ 1 æïaHê⁻<j-F{μ-ãhø-QœL″M∑%6©″\$øc-BL#1″≥Ķ ~w8M0gbw>Vñ3/∑ij(`/Bmaœ'UGŪA/SõüªóOµŸS(Cí>"-=é⁻tóßLQé≤¯µCBbg-é •±h2KÑO◊QlœÙ-≤³üª',4Hi◊ÌuÖœ -åV¶->+M°äfBÅ5Ià-æº^C•fÛDùaÕäÿ≥_#f-1`¥LäWc‹öÁ-*ZπY`N6K£B},ë≈*1C″"ÅD●L†K¢egd +8VÁEßs∞Lö∞méV、>è+?ædÜh●UMé∆˜Ô∞≈í +Fîf <•≠″Fúp#Åzzz+MC∫L(£BôÅFÓÅy=Ù.T*∫(`/Bmaœ´U6ÛA~~ïgs&qLø^?<Üçy</pre> œ\$,7JA°Û{ËäFjr+31ç;+Ω≠;LÖ;9†BÁj≀+;[−]zyáùŸèKú<uZ1°i+C| j-‡[NåtàF≥ä1"Ê.®8i?-†+H∏i)yc4ûÊX≈dá‡≤èøAâ áKy87Êfªîp″Ï∫DõvÑ∖m≥îÊJc`c_∑-NòʻJ`¬f πÌC|ÃÊêÏ<nYπüàIɱÈÎ0l[ÊûM[¬È»#Ká\$Ë:C, ´Á¨h−H√úœLÉÿãavOkàÁ¬pÉÅ" ŊŊĹŊ±eŀñ?ÁKıwY`1bG≥ôVöŸXÁbyeMiá∞ĬD±ÌÓÍÇÔÁ`bah…'¥"DŲŨŧfŀkhÁŏf;ŧøHC°"nß≥6ĴÁ,Â/⟨→`LÑn¨A‡≥`ä‰y7∖ÒflC″g^OØ≥!öÿΩfiáÁEâ4Ã%^ãF†∑Q¥Ñ&Á['®″ÄĘö+Mß·'∂1>Ár / π(||=C|11) / 1/2 / 2010/ / 1/2 / 2010/ / 2010 ‱7Å[],7Ö[ÚL]fīÿÁŋġŊ°& *y j5g=M©ĨĄŁζ§ſ&Å*IëfIIRLù"_I¶Ÿùπůe,H⊘@vAÆÉ&n_hz"Á&Z"ÚlÔzL∂⊘uè∏íðfĭ≤BL#Í″≥Ä,>®ó4NÇ'ͰÏO=òqu^Ô>ªGÑΜ ġm≤/SöüªoQuYS(CI>".*qu^Ô>ªGÑĨœ ëm≤∗∗⊀XcB`M A[°]La-DQù~-2Íô´ïcAIFµCò ÃI}%-99v& ,@≠*****`\ s>L-@Ø¿'f.‰DÜ-ÜSw√+=-G\<u>ì</u>ộ∆±Gî†]√C?ç-N≠∑√Ê0!ÇJ£Ü2RË∫,-UKª¨ÜÒÍCÑ}/™''´v,-\S aD®÷i<ï-c‡f 8ā@±A«7ù_¥-j′fA®√-+H†¿-i9´ y-q?lío±PôMé`10?öÜ+x!Jï^16]M≤!¥Ň!i• +ÄāÅ'Ö¬ŸÈM£Ch3Ì"≈+àgËN∖ J]@ñfTŸŋ§+&A≠P¥§Dñġ Ĵġvu-zſĺżn°cBL#Ĩ≥Ä&lQ‡Gö⟨HÇ@Ŏä_‱∂ó@lcjWA#É∵ġàKA/SöüªóQµŸS(Cí>".)@lcjWA#É∵ġàKA*)6i|,È^RFåŸf"±ØB−1\dë£ndWQ&%'N~Y-Ó-8rbúæ≤BìDôG´oëÆD-?^fäHŒÆa@É]SVW,ò-F'Øf®ÆçπIëÛdGf"î-MD¶≈(KYE©" -''Üa-T#Û·µ‹‡dBóŇZåĨ\$,-[ñ~áh.m/Lô´ʃ`)¢‰o-b§;\$ĨÅĴóQMģiÆ!-ixıR|/Gç,≥~c@Jx-p;ĭÓĨŬŠGû‰øe}^b+w•àk∆cçJ†ÇÇ|# äw+≠ófSQEà`-N_Ū+ájŭ′\ .2EèµqM″T£+èeKS#é?B£Å"Sqi∞fi`BLÍ″≥Ä©″ÕÎ…LéVv1.gáĄDä€NfioJß⊄X!8Ç∕Šõü⁰óQµŸS(C1>`Åq`ÅDā€NfioJß⊄X!8Ç+Îq&º#x0Ç¥9S*:Üw+,Ő∑≤ö−Eßg{‡'≂i+,Ó″"‡†≠IùfiUÍ:`±_+Í≠∽´±∽zJäâYC3åï %ay3L`IôÊ,KFn8fE¬ ÚÆ∫<,M±、″Òq6´≈_AYà∞e≤Kª∂πoìàÄBLÍ″≥Ä宣,ç0vM§ "≥ÈNªcà` ∂ö°ΔĖM≥ æ^ÛG//SôüªóQµŸS(Cí> Å ∂ö°ΔÈM≥ æ^ÛG/+ʰ″»'Aè 7Ifi0æ+#β^√ oo dene w oo CÆ∑9'z?+ ,7FB)∞BQeá+| Qfl+″IØEjÌV++⁻ !éfiµJ§>sáfl™äQ+û≤jÔ|ß•Gó^Bö¥ï,'+,ÖñgD″ÖBöÒë1'aËÏb& În⁻‹¥#KÉ«"dã+Ëf@Tù"û≥ŸΩEë¢G˘s≠YP≈Z″0◊6í?/G£fldÆi(′BL0Í″≥ÄißáV ,?Fß)∞BQeá+| Qfl+″IØEjÌV++⁻ !éfiµJ§>sáfl™äQ+û≤jÔ|ß•Gó^Bö¥ï,'+,ÖñgD″ÖBöÒë1'aËÏb& În⁻‹¥#KÉ«"dã+Ëf@Tù"û≥ŸΩEë¢Gĭs≠YP≈Z″0◊6í?/G£fldÆi(′BL0Í″≥ÄißáV í=N§¨1Æ≠~c"/Å Ω{t +0± Ƭië0§º5[°]b{ 7ë"çC`J∏ CμONö(ÊY ♦ÒWAoCɰ Ó‰°B[°]Êm 1WCkUNöêÌiiYøÊc sÙOñ∂I—0ÆWüU•PΩÊ



Why is open so important? A BIM Gath Not one player defines how data is exchanged: the definition is collabor

An open standard is a standard that is openly accessible and usable by anyone.

To open it!

An open definition of a data standard allows everyone to interpret the data. Being able to always have the guarantee to access your data makes it the only real option for archiving.

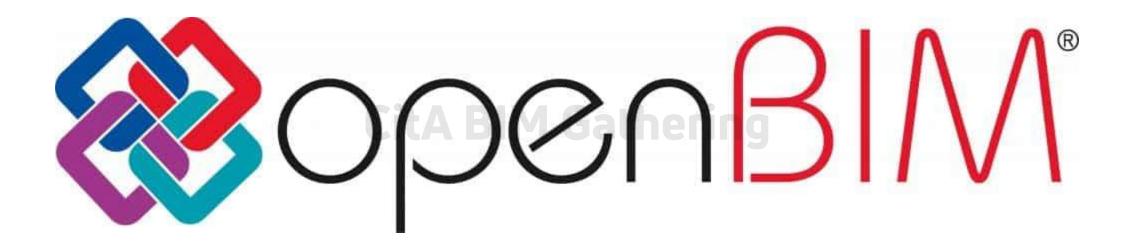
Collaboration & consensus

exchanged; the definition is collaborative, and consensus based

Control your digital destiny

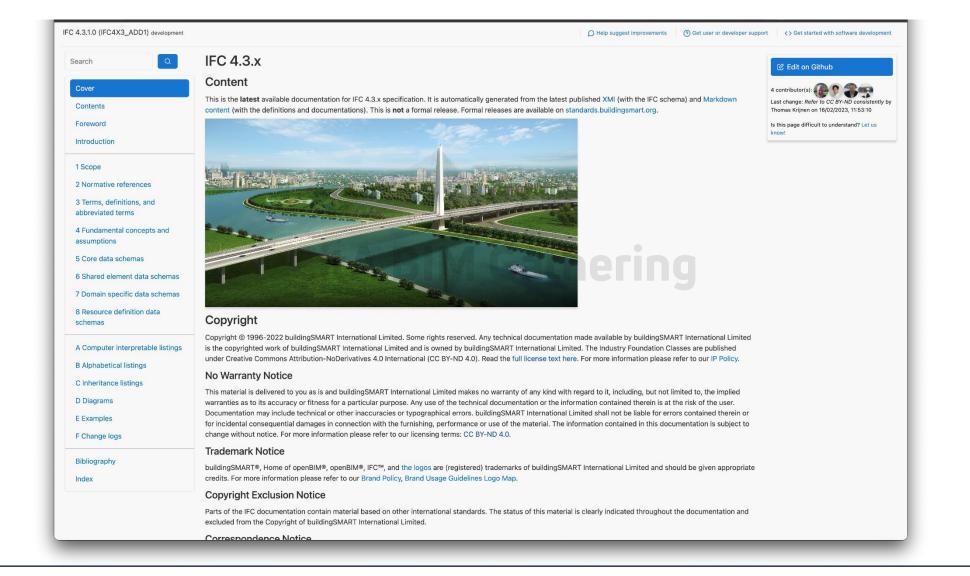
You can swap tools at any point you like. You won't be held hostage by a vendor. You control your own workflows, now and in the future.





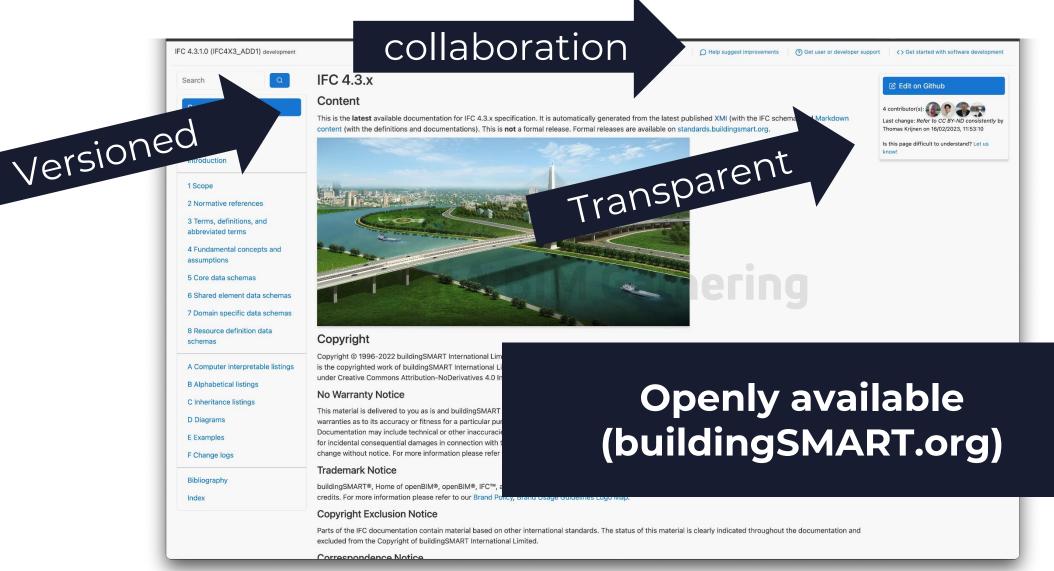


Industry Foundation Classes (IFC)





Industry Foundation Classes (IFC)





Search	6.1.3.37 lfcStair	C Edit on Github
Cover	NOTE This entity is a subtype of IfcProduct or IfcTypeProduct and hence part of every standardized schema subset and implementation level.	2 contributor(s):
Contents	~ 6.1.3.37.1 Semantic definition [⊘]	Last change: Alt quote purge, trailing whitespace purge, and nbsp purge by Dic
Foreword	A stair is a vertical passageway allowing occupants to walk (step) from one floor level to another floor level at a different elevation. It may include a landing as an intermediate floor slab.	Moult on 01/03/2022, 13:07:20 Is this page difficult to understand? Let u know! Jump to section
Introduction 1 Scope	NOTE Definition according to ISO 6707-1: Construction comprising a succession of horizontal stages (steps or landings) that make it possible to pass on foot to other levels.	
2 Normative references 3 Terms, definitions, and abbreviated terms	The <i>lfcStair</i> shall either be represented: • as a stair assembly entity that aggregates all parts (stair flight, landing, etc. with own representations), or • as a single stair entity without decomposition including all representation directly at the stair entity.	6.1.3.37.1 Semantic definition 6.1.3.37.2 Entity inheritance 6.1.3.37.3 Attributes 6.1.3.37.4 Formal propositions 6.1.3.37.5 Property sets 6.1.3.37.6 Concept usage
4 Fundamental concepts and assumptions	NOTE In case of an <i>IfcStair</i> being the aggregate of all parts of the stair the aggregation is handled by the <i>IfcRelAggregates</i> relationship, relating an <i>IfcStair</i> with the related <i>IfcStairFlight</i> and landings, <i>IfcSlab</i> with PredefinedType=LANDING. <i>IfcRailing</i> 's belonging to the stair may also be included into the aggregation.	6.1.3.37.7 Formal representation 6.1.3.37.8 References
5 Core data schemas 6 Shared element data schemas 6.1 ifcSharedBidgElements	NOTE Model View Definitions and implementer agreements may restrict the <i>lfcStair</i> being an assembly to not have an independent shape representation, but to always require that the decomposed parts have a shape representation. In this case, at least the 'Body' geometric' representations shall not be provided directly at <i>lfcStair</i> if it is an assembly. The 'Body' geometric representation of the <i>lfcStair</i> is then the sum of the 'Body' shape representation of the parts within the decomposition structure.	 6.1.3.37.9 Changelog 6.1.3.37.9.1 IFC4 + where rule, CorrectPredefinedT + where rule, CorrectTypeAssigne × where rule, WR1 × where rule, WR1 × attribute ShapeType name, Changed from "ShapeType" to "PredefinedType"
6.2 IfcSharedBldgServiceElements 6.3 IfcSharedComponentElements 6.4 IfcSharedFacilitiesElements	HISTORY New entity in IFC2.0. IFC4-CHANGE Attribute ShapeType renamed to PredefinedType.	
6.5 IfcSharedMgmtElements	✓ 6.1.3.37.2 Entity inheritance ∂	attribute ShapeType optional, Changed from "False" to "Tru
6.6.IfoSharadiafractructuraElemen		6.1.3.37.9.2
	I/cRoot	IFC4.3_DEV_703a485 2
7 Domain specific data schemas 8 Resource definition data	↑ IfcObjectDefinition IfcRelationship	
7 Domain specific data schemas 8 Resource definition data schemas		IFC4.3_DEV_703a485 supertype, Changed from "IfcBuildingElement" to
7 Domain specific data schemas 8 Resource definition data schemas		IFC4.3_DEV_703a485 supertype, Changed from "IfcBuildingElement" to
7 Domain specific data schemas 8 Resource definition data schemas A Computer interpretable listings B Alphabetical listings		IFC4.3_DEV_703a485 supertype, Changed from "IfcBuildingElement" to
7 Domain specific data schemas 8 Resource definition data schemas A Computer interpretable		IFC4.3_DEV_703a485 supertype, Changed from "IfcBuildingElement" to



Industry Foundation Classes (IFC)





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Correspondence Natice	



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About buildingSMART

Home » About

buildingSMART is a global community of chapters, members, partners and sponsors led by the parent body, buildingSMART International. The buildingSMART community is committed to creating and developing open digital ways of working for built asset environment. buildingSMART standards help asset owners and the entire supply chain work more efficiently and collaboratively through the entire project and asset lifecycle.

buildingSMART is the worldwide authority driving the digital transformation of the built asset environment, through creation and adoption of open, international standards for infrastructure and buildings. buildingSMART provides the perfect opportunity to help industry visionaries transform the design, delivery and operation of tomorrow's built assets. buildingSMART is committed to driving change through the use of standards and the adoption of digital workflows.

International open digital data-sharing standards are critical to this transformation, helping businesses – owners, architects, engineers, contractors and operators – become global industry leaders, while also mitigating risks, saving time, and reducing costs. buildingSMART is an open, neutral and international not-for-profit organisation.

	Community	Solutions and Standards	What's New	About
Facebook	Members	bSI Standards	Blog	buildingSMART Team
YouTube	Partners	Domains	Latest News	What We do
V Vimeo	Chapters	Calls for Participation	Newsletters	Policies
🗊 LinkedIn	User Stories	Compliance	Events	Membership and Benefits
	Forum	User Services	Webinars	Annual Reports
Subscribe	Get Involved	Standards Library		Awards
Contact Us		Technical Website		
		Github		



Chapters







Member Directory

Home » Community » Members » Member Directory

Strategic Members



Multinational Members



±900 – Entities

± 400 – Types

How big is IFC? ± 2500 – Normalized properties CitA BIM Gathering

±1500 – Psets, Functions, Enums, etc..

± 300 – Concept templates



Search	~ Search
Cover	irish Search
Foreword	No results match your query
1 Scope	
2 Normative references 3 Terms, definitions, and abbreviated terms	
4 Fundamental concepts and assumptions	
5 Core data schemas	
6 Shared element data schemas	
7 Domain specific data schemas	



Is it big enough?

O Help suggest improvements

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Search

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Foreword

Introduction

1 Scope

2 Normative references

IFC 4.3.2.0 (IFC4X3_ADD2) development

3 Terms, definitions, and abbreviated terms

4 Fundamental concepts and assumptions

5 Core data schemas

6 Shared element data schemas

7 Domain specific data schemas

Search	1
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	Search

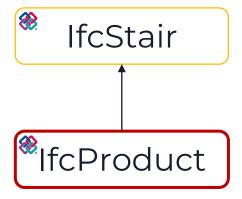
No results match your query

CitA BIM Gathering

How big should it be?

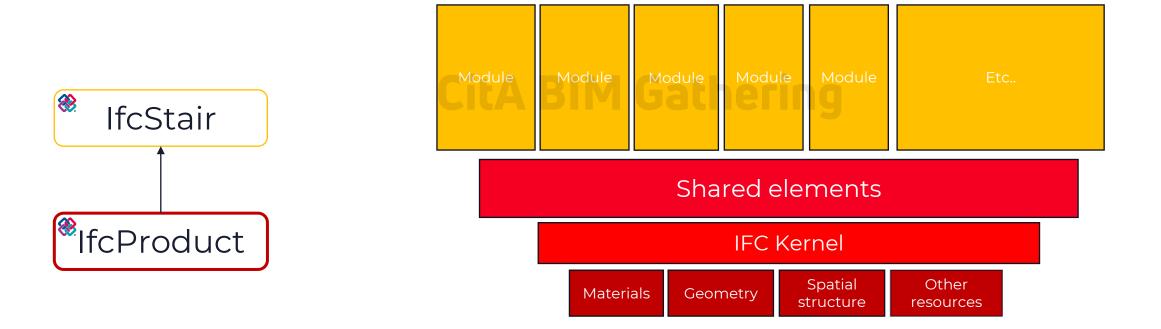


CitA BIM Gathering

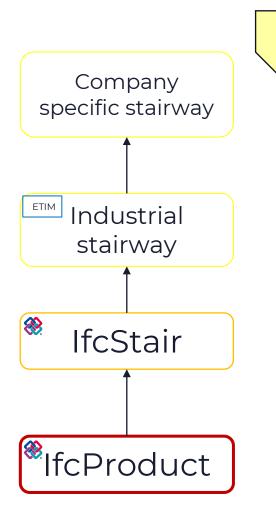




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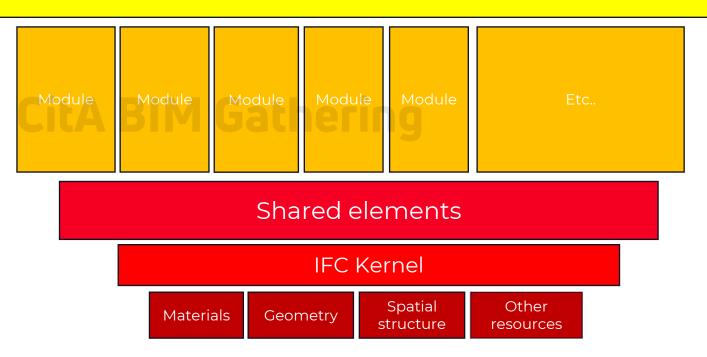




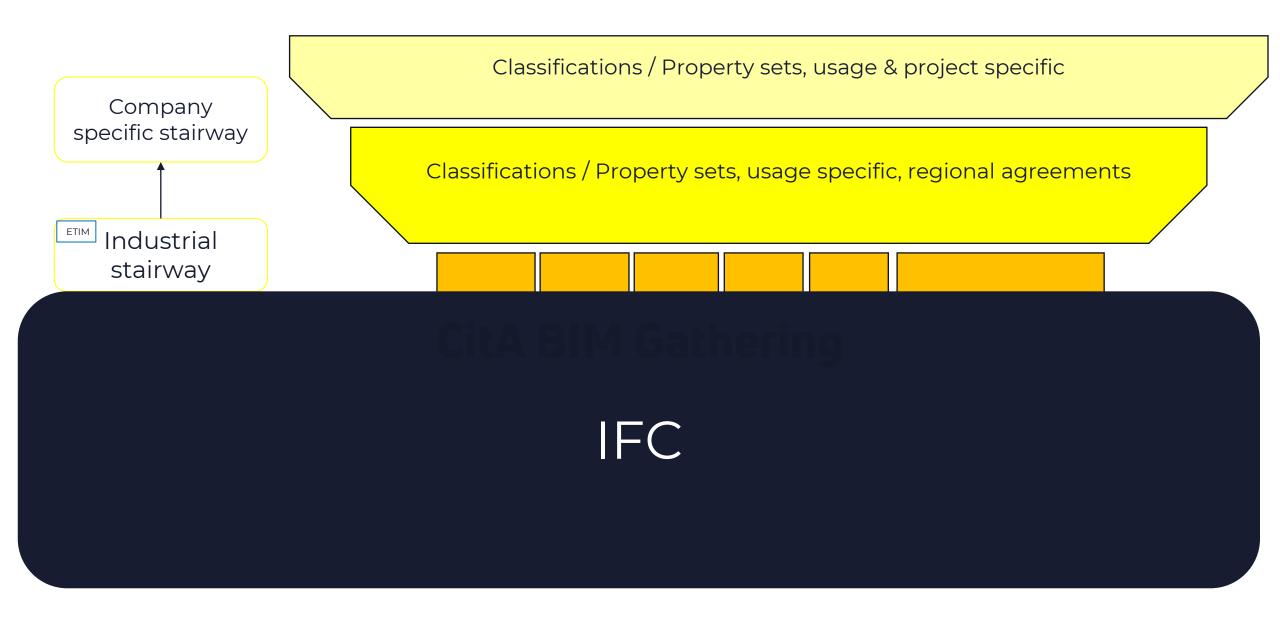


Classifications / Property sets, usage & project specific

Classifications / Property sets, usage specific, regional agreements









Works together with IFC







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All of it:

Published and linked in buildingSMART Data Dictionary (bSDD)



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stair

 $\times \mathbf{Q}$

 a service by buildingSMART I 	International		
	All Classifications Properties		
Domains	Classification IFC > > IfcBuiltElement		
	IfcStair 🖸 A stair is a vertical passageway allowing occupants to walk (step) from one floor level to another floor level at a different elev		
CCI Construction 1.0 ETIM 8.0 ETIM 9.0	Classification IFC > > IfcStair IfcStair.CURVED_RUN_STAIR A stair extending from one level to another without turns or winders. The stair is consisting of one curved flight.		
 NL-SfB 2005 2.2 Uniclass 2015 1 UniversalTypes 1.0 	Classification IFC > > IfcStair IfcStair.DOUBLE_RETURN_STAIR A stair having one straight flight to a wide quarterspace landing, and two side flights from that landing into opposite directions		
	Classification IFC > > IfcStair IfcStair.HALF_TURN_STAIR A stair making a 180° turn, consisting of two straight flights connectedby a halfspace landing. The orientation of the turn is det		
	Classification IFC > > IfcStair IfcStair.HALF_WINDING_STAIR A stair consisting of one flight with one half winder, which makes a 180° turn. The orientation of the turn is determined by the w		
	Classification IFC > > IfcStair IfcStair.LADDER 💭 a piece of equipment consisting of a series of bars or steps between two upright elements used for climbing up or down something		
	Classification IFC > > IfcStair IfcStair.NOTDEFINED D https://github.com/buildingSMART/IFC4.3.x-development/edit/master/docs/schemas/shared/IfcSharedBldgElements/Types/IfcStairTypeEnum		
	Classification IFC > > IfcStair IfcStair.QUARTER_TURN_STAIR A stair making a 90° turn, consisting of two straight flights connected by a quarterspace landing. The direction of the turn is de		
	Classification IFC > > IfcStair IfcStair.QUARTER_WINDING_STAIR 🖸 A stair consisting of one flight with a quarter winder, which is making a 90° turn. The direction of the turn is determined by the		
	Classification IFC > > IfcStair IfcStair.SPIRAL_STAIR 💭 A stair constructed with winders around a circular newel often without landings. Depending on outer boundary it can be either a ci		
	Classification IFC > > IfcStair IfcStair.STRAIGHT_RUN_STAIR A stair extending from one level to another without turns or winders. The stair consists of one straight flight.		





Classification	
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Classification	
C Flight of stairs	English ~
Code	L-XSB
Classification type	Class
Namespace URI	https://identifier.buildingsmart.org/uri/molio/cciconstruction-1.0/class/L-XSB
Description	level connecting object in the form of sequential steps
Domain	CCI Construction
Domain version	1.0
Domain release date	2023-01-01
Domain license	MIT license
Domain state	Active
More info	https://anvisninger.molio.dk/Gratis-vaerktojer/CCI_Klassifikation
Domain quality assurance procedure	Private
Owner	Molio
Parent classification	Level connecting component
CountryOfOrigin	DK
CreatorLanguageCode	da-DK
RevisionNumber	BIM Gatherin
Status	Active
VersionDateUtc	2020-01-01
Related IFC entities	IfcStair IfcTransportElement IfcStairFlight
Classification prope	rties
ConstructionMethod (IFC-4.3)	The type of construction action to the object, e.g. new construction, renov
Classification relation	ns
URI https://identifier.buildingsmarf 4.3/class/lfcStair	.org/uri/buildingsmart/ifc- IfcStair Relation type

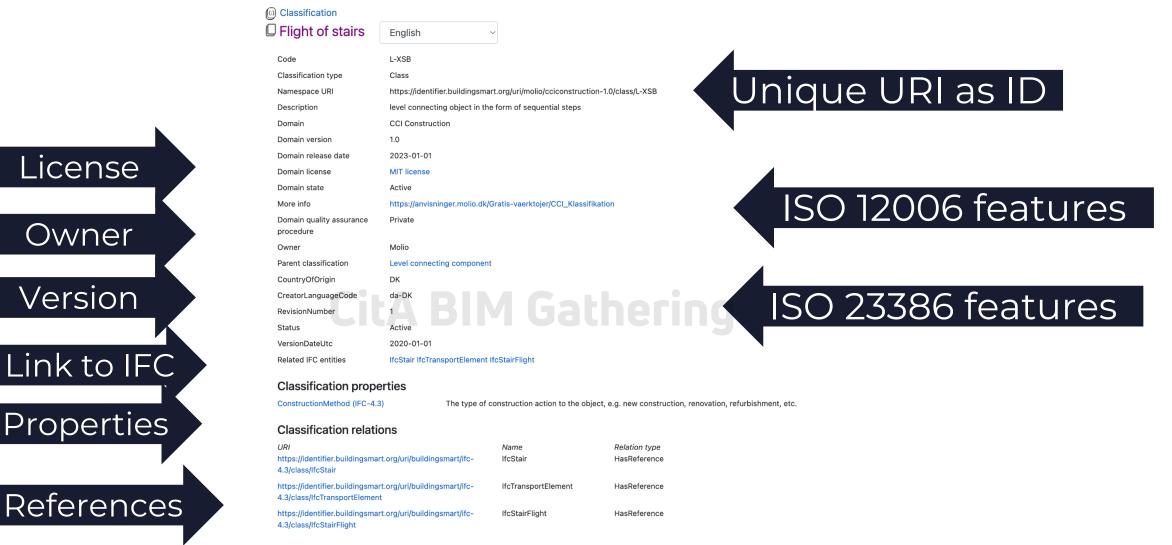
ovation, refurbishment, etc.

URI https://identifier.buildingsmart.org/uri/buildingsmart/ifc- 4.3/class/lfcStair	Name IfcStair	<i>Relation type</i> HasReference
https://identifier.buildingsmart.org/uri/buildingsmart/ifc- 4.3/class/lfcTransportElement	lfcTransportElement	HasReference
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buildingSMART Data Dictionary

Home » Users » Services » buildingSMART Data Dictionary



What is bSDD?

The buildingSMART Data Dictionary (bSDD) is an online service hosting classes (terms) and properties, allowed values, units, translations, relations between those and more. It provides a standardised workflow to guarantee data quality, information consistency and interoperability.

BIM modellers use the bSDD for easy and efficient access to all kinds of standards to enrich their models. BIM Managers use the bSDD to reference Information Delivery Specifications (IDS) and check BIM data for validity. Content creators benefit from having one entry point to various BIM tools and platforms.

Besides national and international classification systems (e.g. Uniclass, CCI) and domain-specific standards (e.g. ETIM, IfcAirport), company-specific standards can be stored in bSDD as well.

The bSDD implements the ideas from ISO 12006-3, ISO 23386 and Linked Data standards.

Access the bSDD

At the heart of bSDD is a database with all dictionaries. The content of dictionaries can be related to each other, creating a connected graph. The main way to access the bSDD is through its APIs (Application Programming Interfaces). This is how most BIM software and other apps can use the data stored in the bSDD. Apart from that, there is the bSDD Search page, where people can look up the content. Authors can publish content to bSDD through the API or the Management Portal



For bSDD Users

The primary entry point to bSDD is the software and platforms that integrate with it. See the list of software integrated with bSDD. Ask your software vendor for more information.

You can also preview the public bSDD content using the search page of bSDD.

Watch how buildingSMART Technical Director Léon van Berlo explains how to use bSDD to extend IFC for your needs.

For Content Creators

Whether you want to publish a classification system, materials list, sets of properties or taxonomy, bSDD lets you connect to the world in a unique way. Publishing in bSDD is free, except for content with restricted access. To start, just register your organisation using this form:

Register Organisation

We will review your request and set up the account. After that, you can publish dictionaries in the bSDD yourself or with the help of expert

For Software Developers

At the heart of bSDD is a database, where all dictionaries can be related to each other. The main way to access the bSDD is through its APIs. Read the interactive API documentation on Swagger. We provide documentation and useful guidelines for software developers on bSDD's GitHub. There you can also post technical issues or suggest improvements.

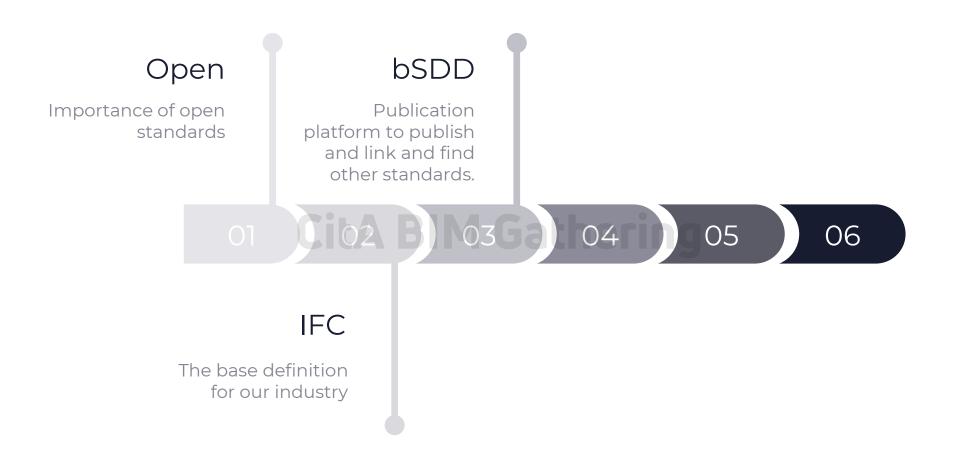
Documentation

Make sure to turn on notifications on that topic

http://bsdd.buildingsmart.org/ athering

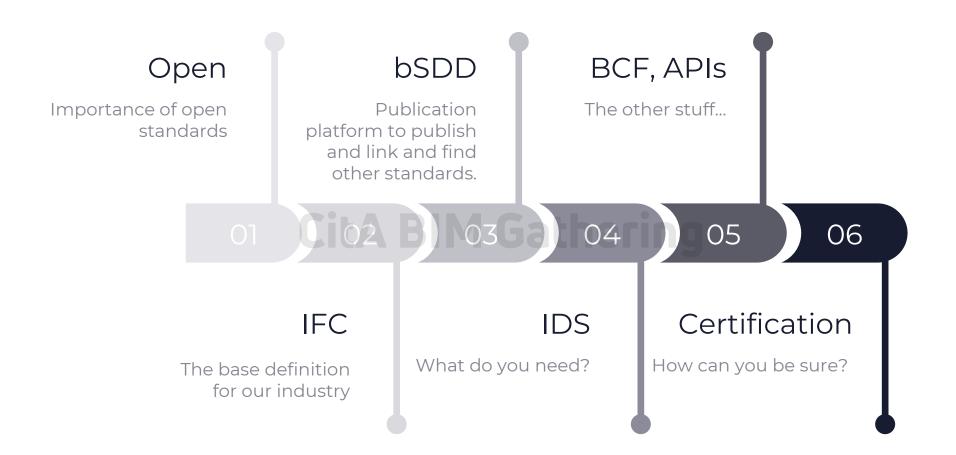


What did we cover so far?

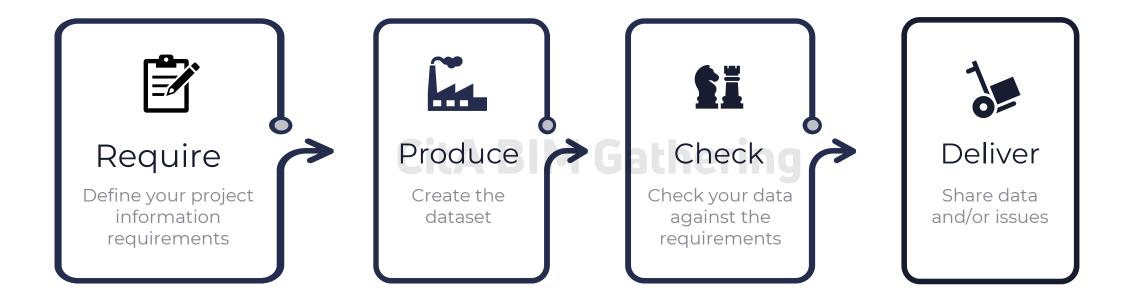




What is still to come?













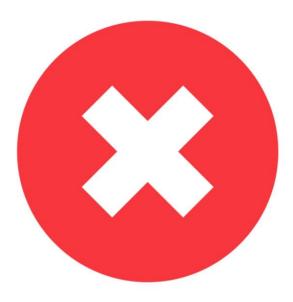
BAD examples:



- **"LOD 350"**

CitA-B"I want IFC"

- "I need the stairs"





For example:

There should be at least on stair; and every Stair must have a property NumberOfRiser and that value needs to be >1





For example:





There should be at least on stair; and

every Stair must have a property NumberOfRiser and tha

<simpleValue>IFCSTAIR</simpleValue>

simpleValue>L-AFc/simpleValue>

<simpleValue>IFCDOOR</simpleValue>

cxs:enumeration value="L-QQC" /
cxs:enumeration value="L-QQE" / cxs:enumeration value="L-000

</xs:restriction> </value> <system>

ndards.buildingsmart.org/TDS/ids_09.xsd"

<version>2.0</version>
<description></description;</pre>

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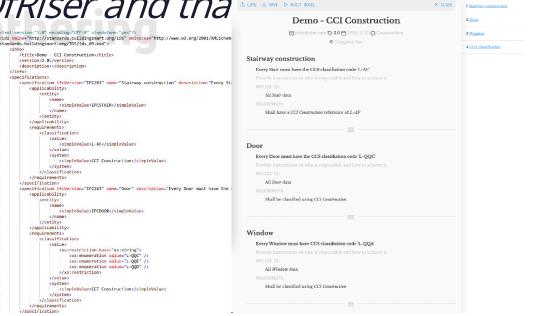
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specification

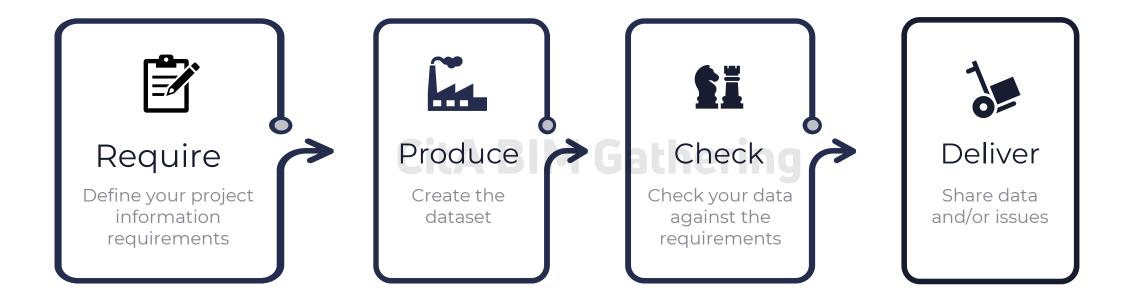
(/info> capecifications

(title>Demo - CCI Construction</title</pre>

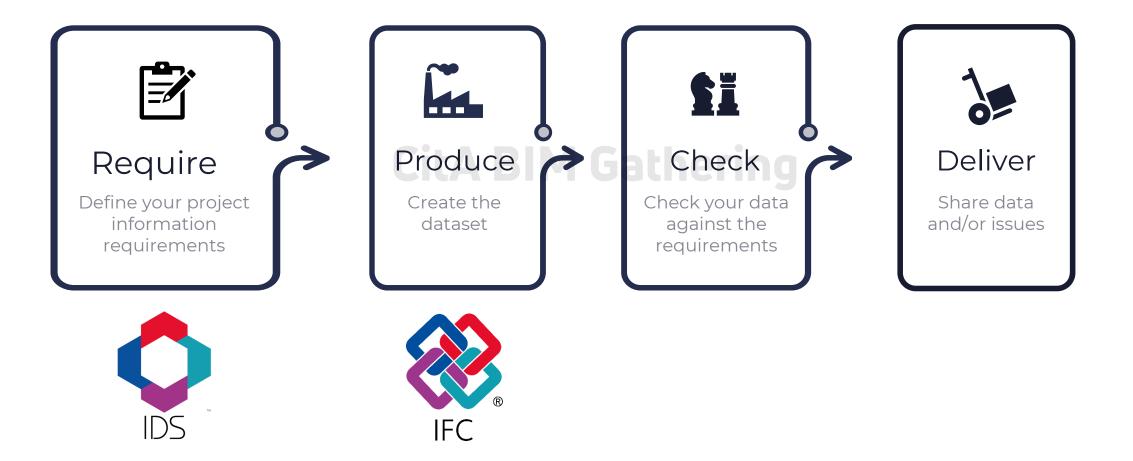




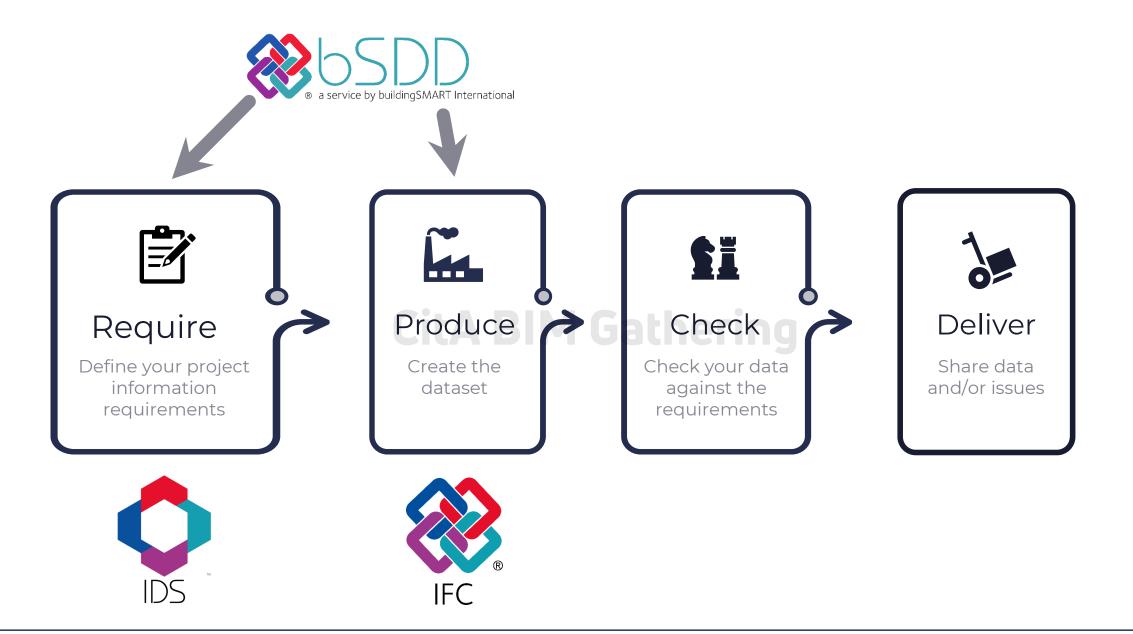




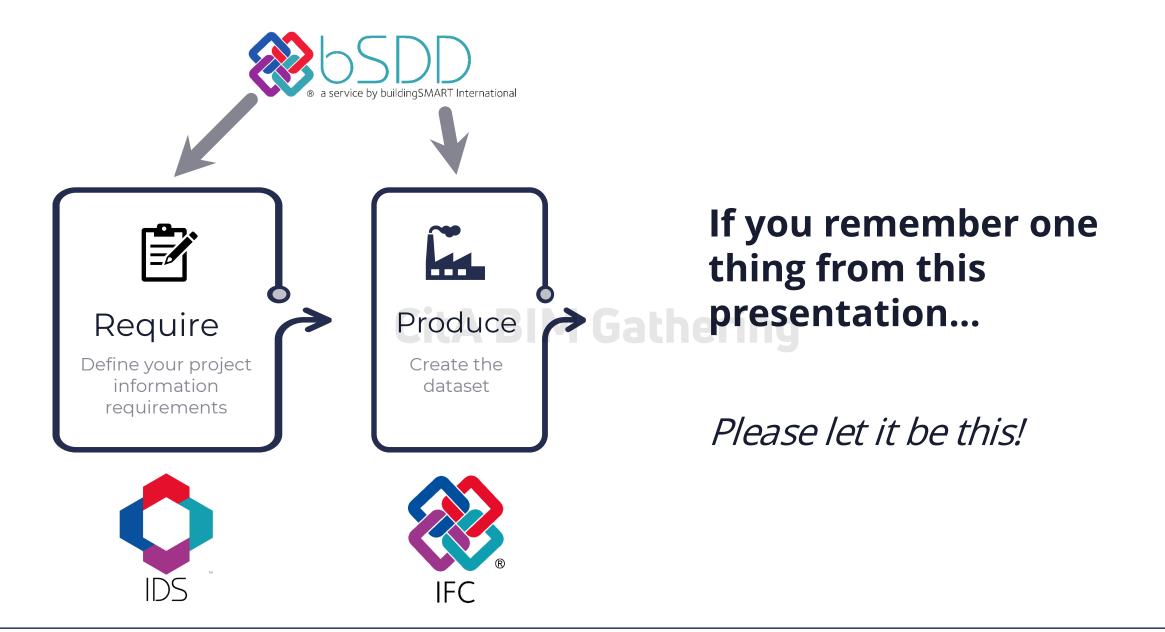






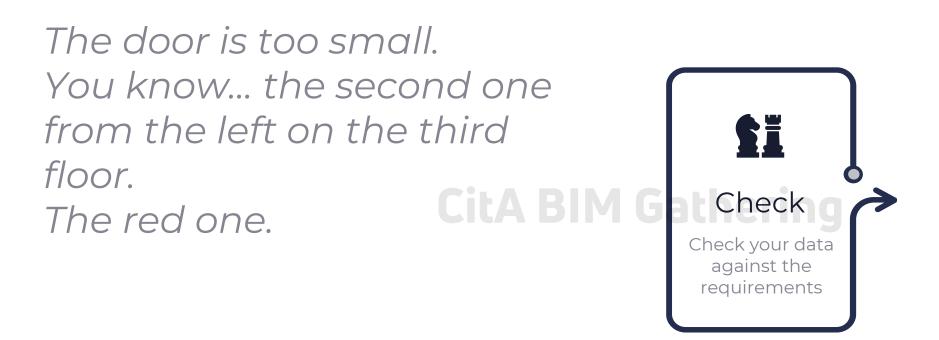






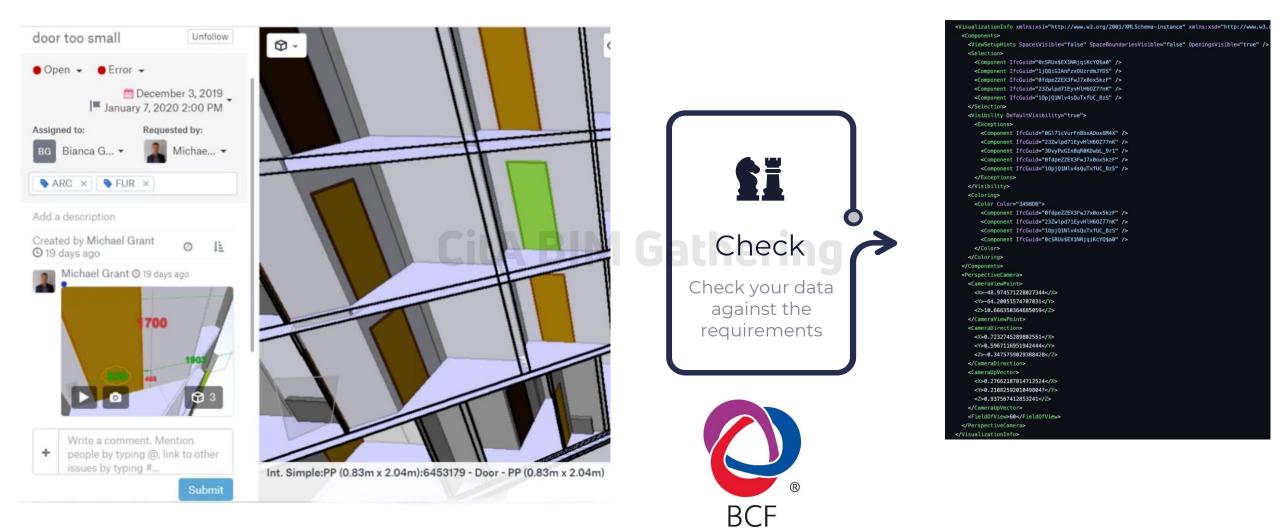


How do you communicate 'issues'?

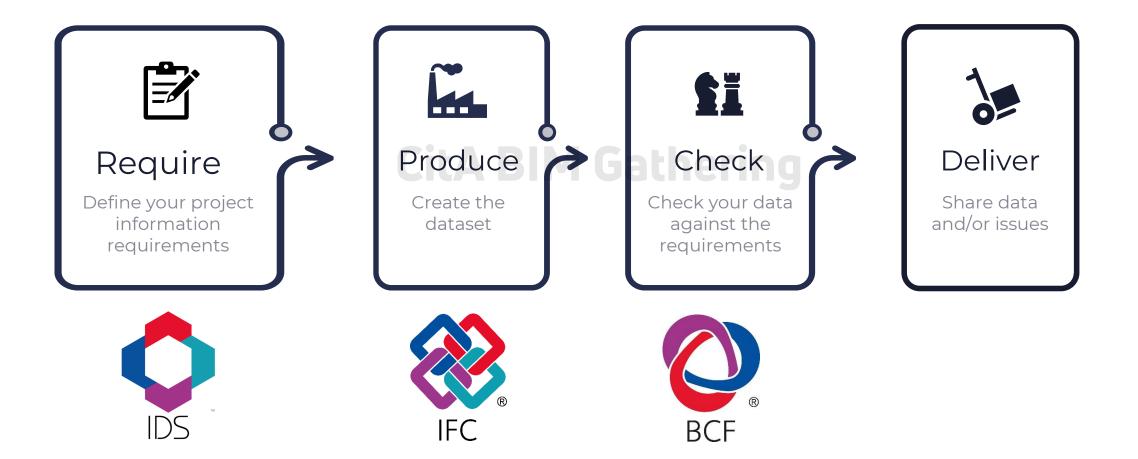




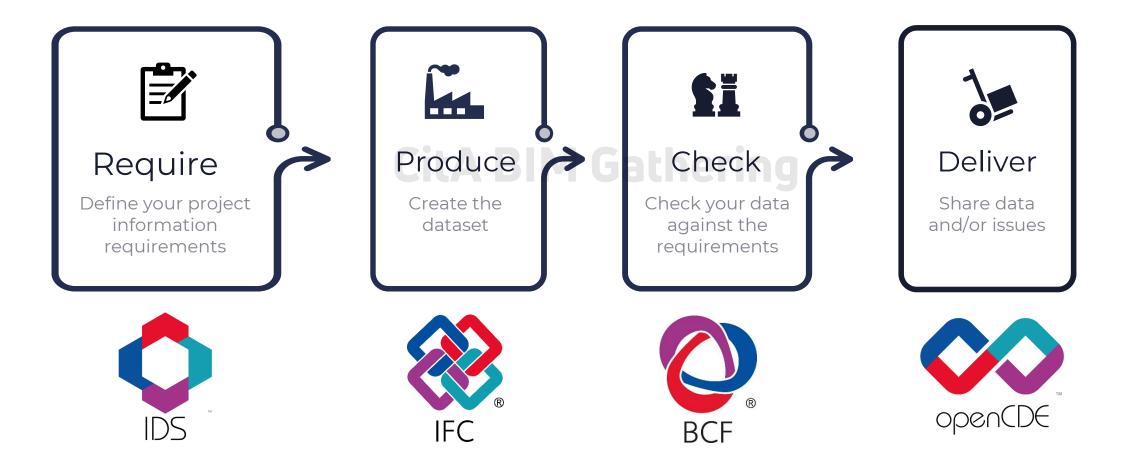
How do you communicate 'issues'?





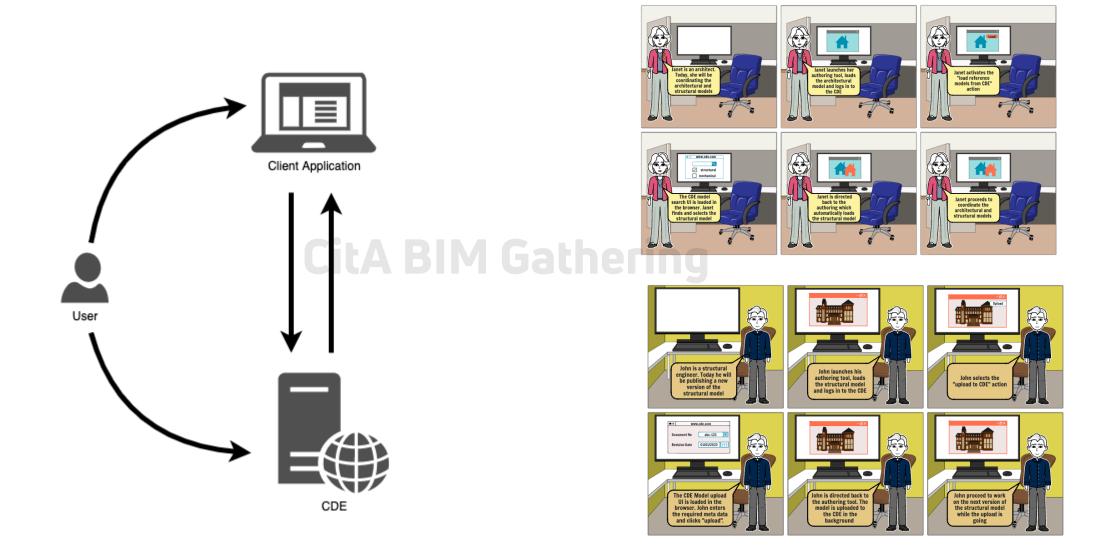








Basics of openCDE initiative: automate interfaces











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And there is more....

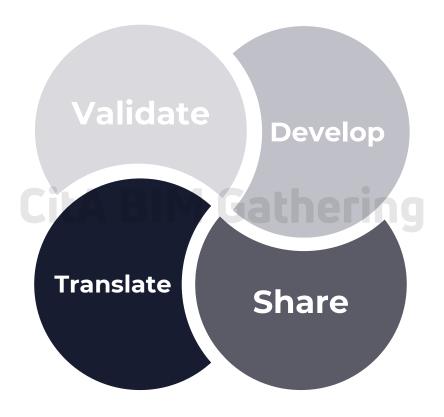
Validation service

The validation service checks your IFC data for compliance to the IFC standard. Try the beta version on validate.buildingSMART.org



Translations

Help translate the IFC definitions and descriptions into your local language. Translations.buildingSMART.org



IFC management system

Contribute to IFC developments. Create examples, help clarify definitions, etc. Github.com/buildingSMART

Share best practices

Share your use-cases and best practices on our Use-case Management tool. Try for free at ucm.buildingSMART.org









































CitA BIM Gathering

leon.vanberlo@buildingsmart.org



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Feel free to ask!



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