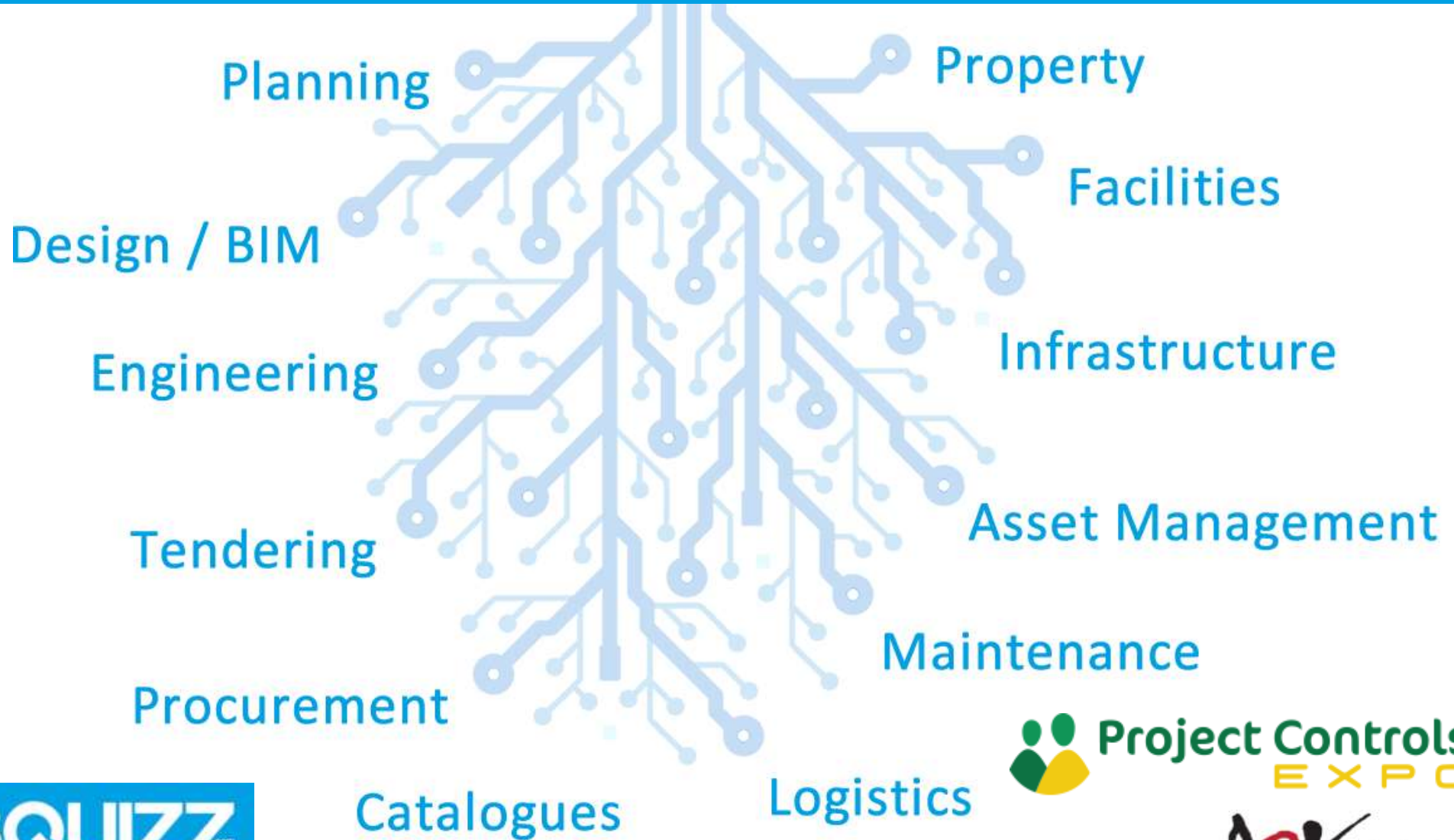


Towards Smart Cities

Case Studies For The Built Environment Lifecycle



An Initiative Proudly Supported By



Preparing For Tomorrows Users



Smart Cities Innovators Round Table

Let's get the juices flowing

Q1. If a building could speak, what would it say?

Q2. If the city grid could speak, what would it say?

Q3. If a factory could speak, what would it say?



FORM
FOLLOWS
DATA



Let's hear from Alain Waha (BIMMEPAUS)

<https://youtu.be/jITwAjDChjU?t=2043>

Smart Cities = C-Commerce + Smart Assets

What makes it 'Smart' is interconnectivity across public and private contexts across The Connected Economy.



The Connected Economy Makes Cities Smart

A 'Smart Asset' is an asset that is aware of itself within the present context and can act to ensure it functions according to desired outcome/s of its owner.

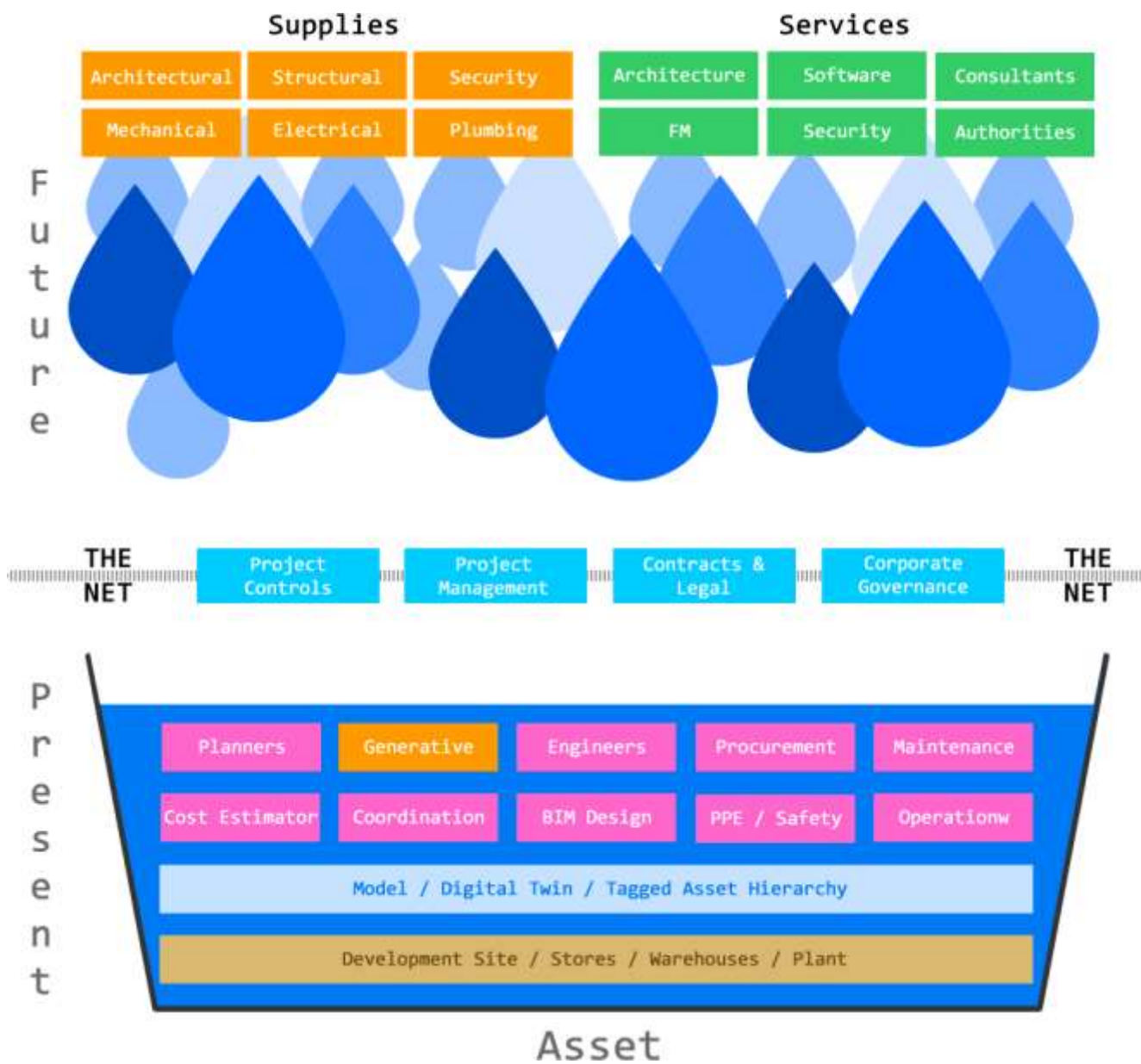
Smart Buildings

Smart Infrastructure

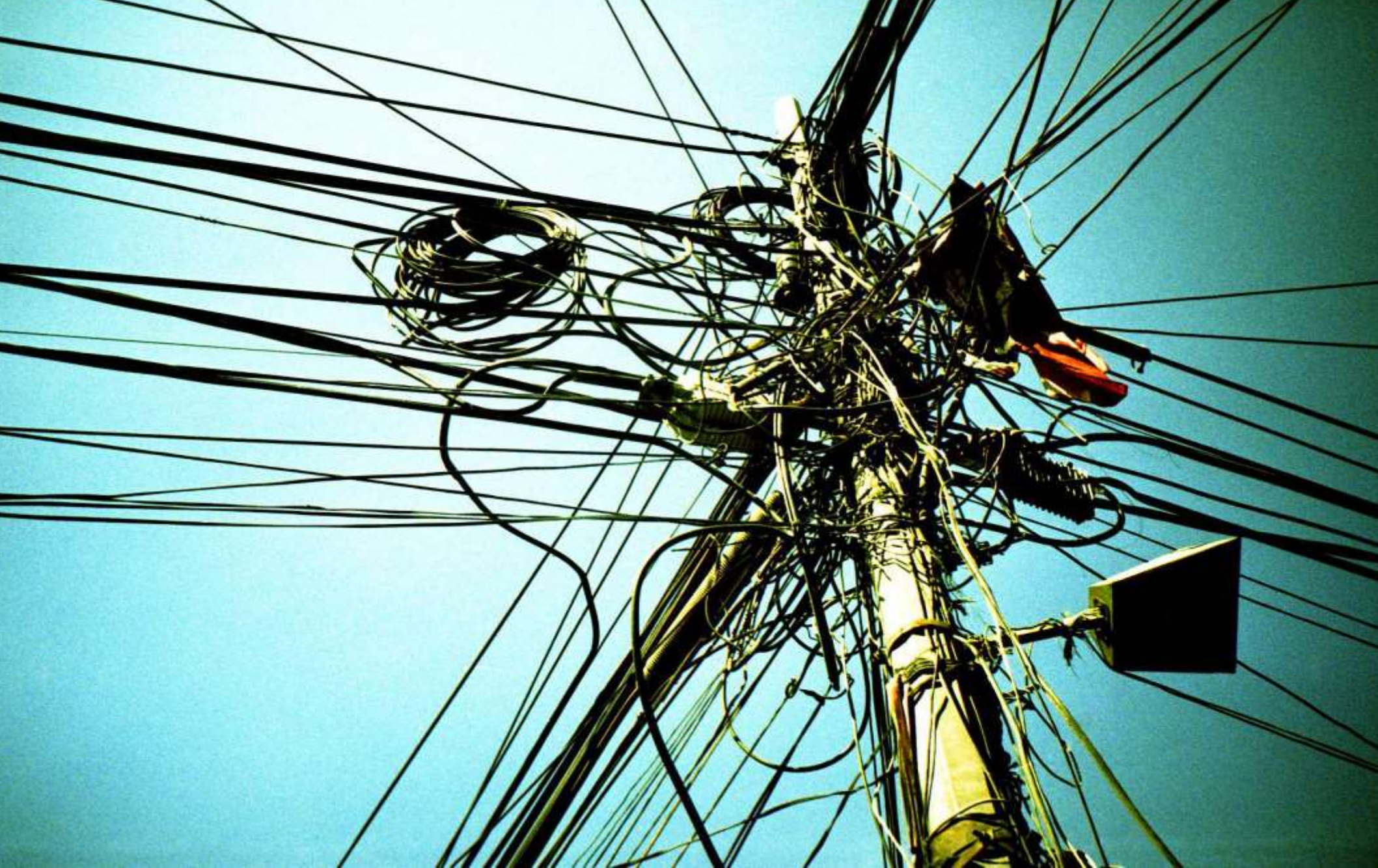
Smart Things



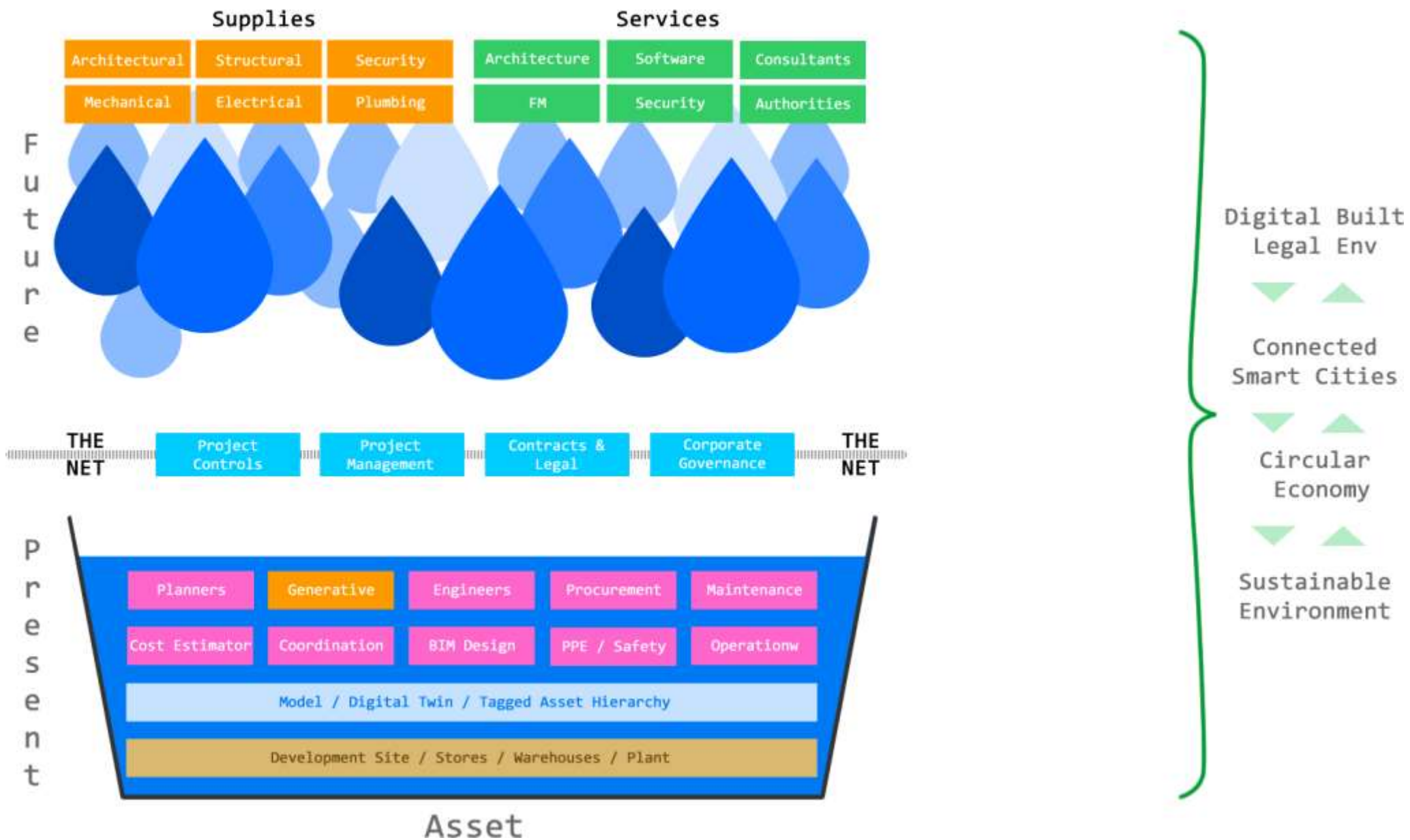
A New Definition For Smart Assets



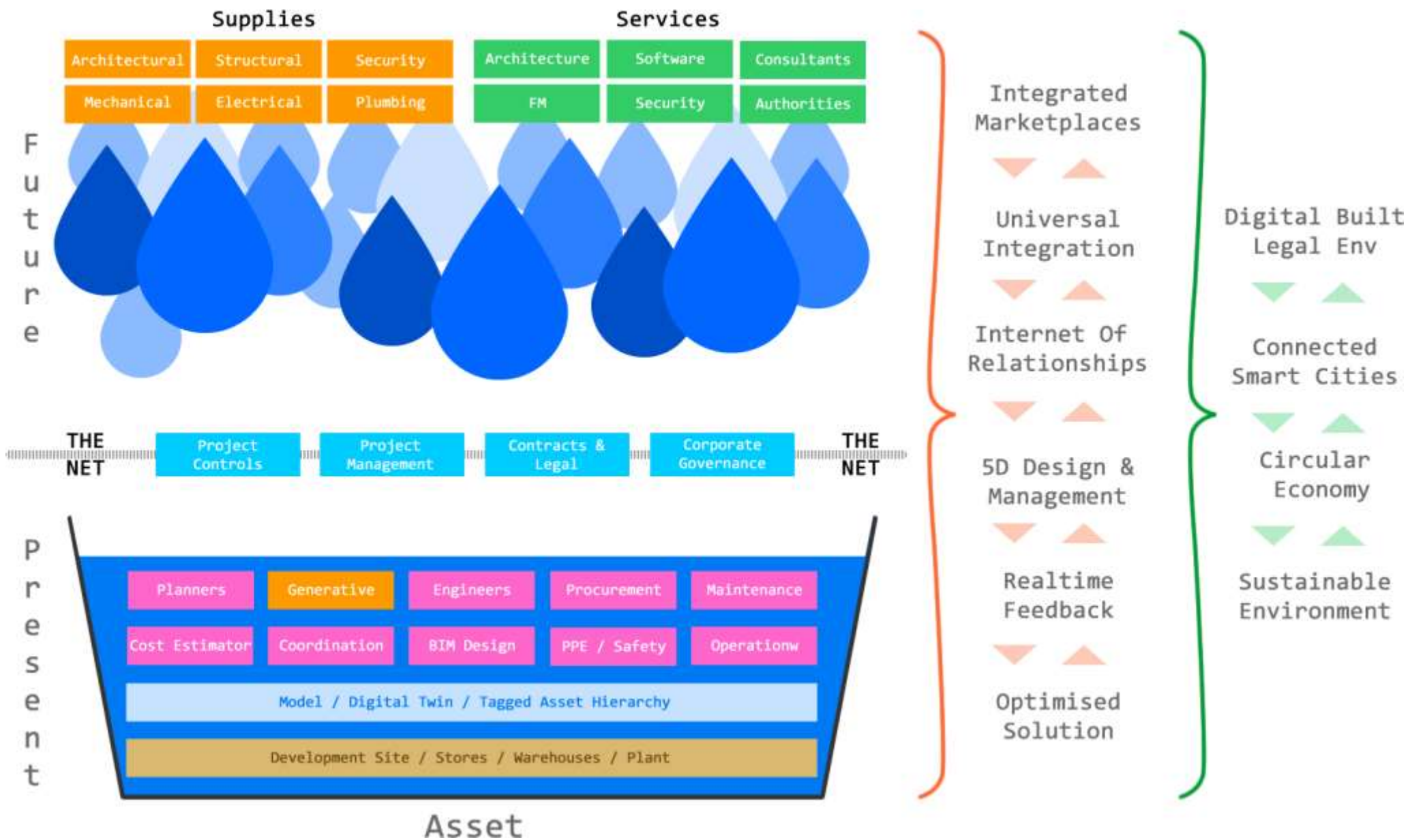
Let's Look At How A Project Works



But, Chaos Is Never Too Far Away

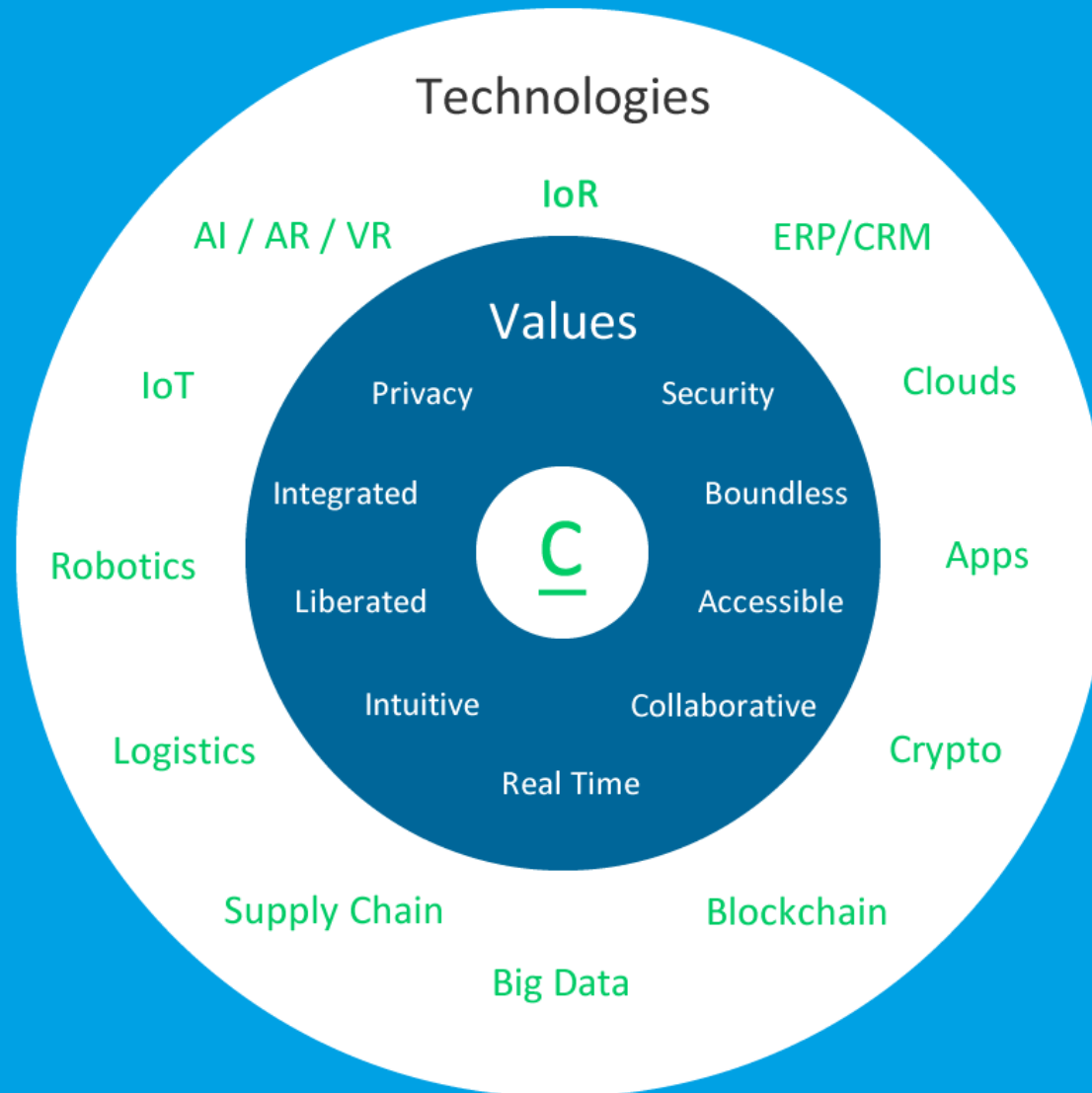


So How Do We Achieve The End Game?



We Need Different Thinking

The World Is Craving A New Internet

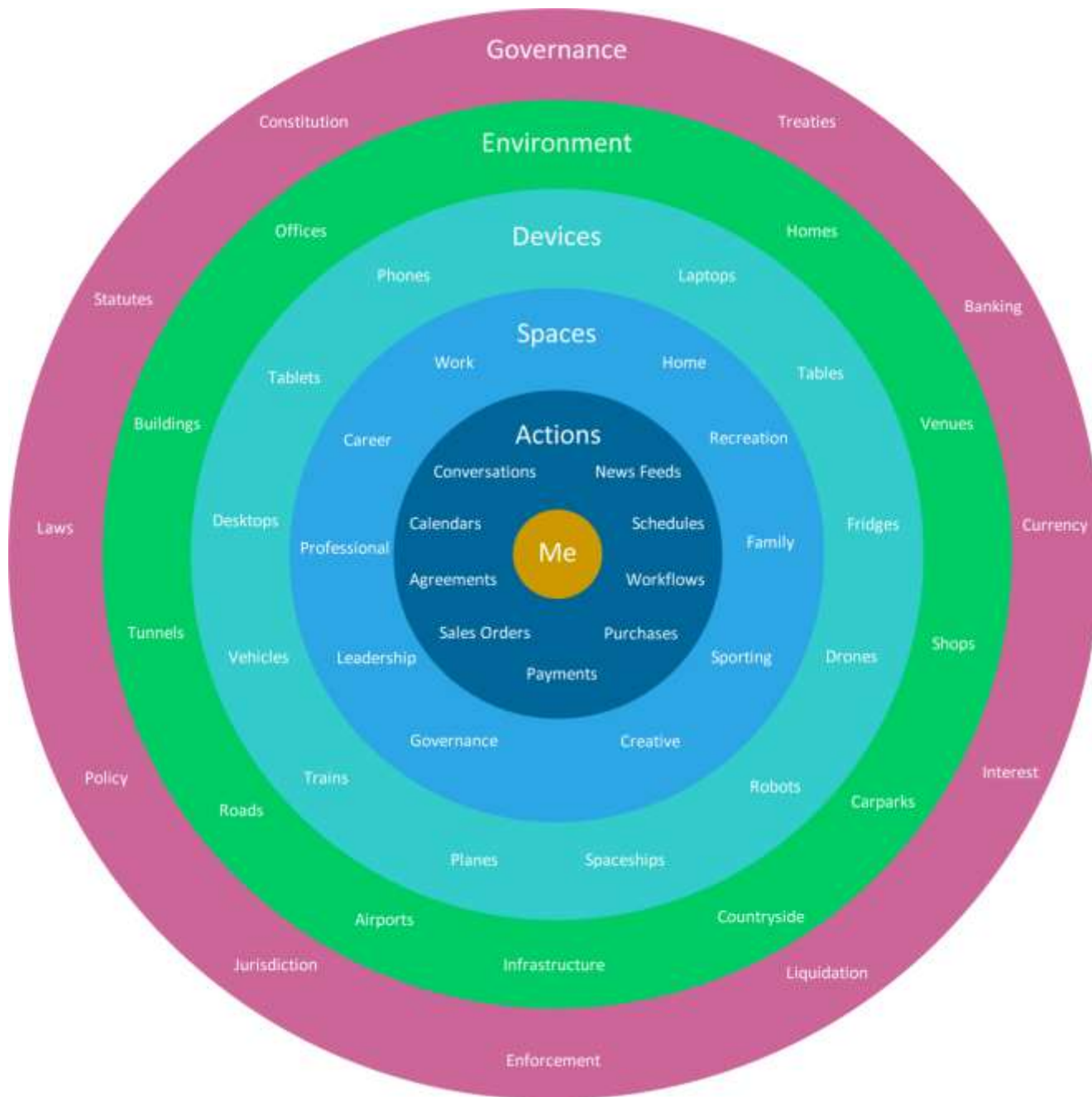


A Trusted Space For Trade To Happen

SQUIZZ.com Was Born From This Idea

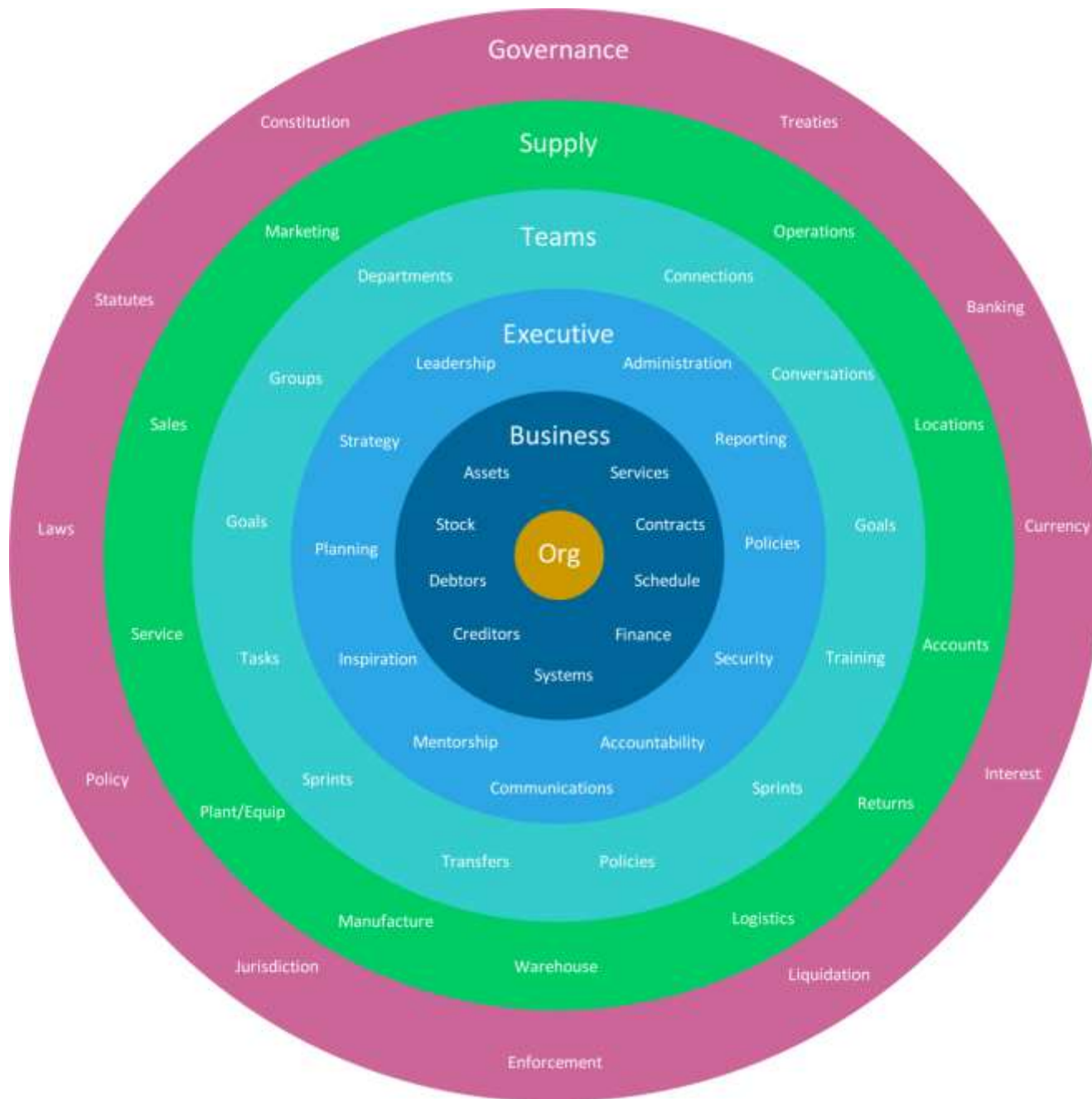
A Globally Integrated
Connected-Commerce Platform
To Connect, Automate & Trade



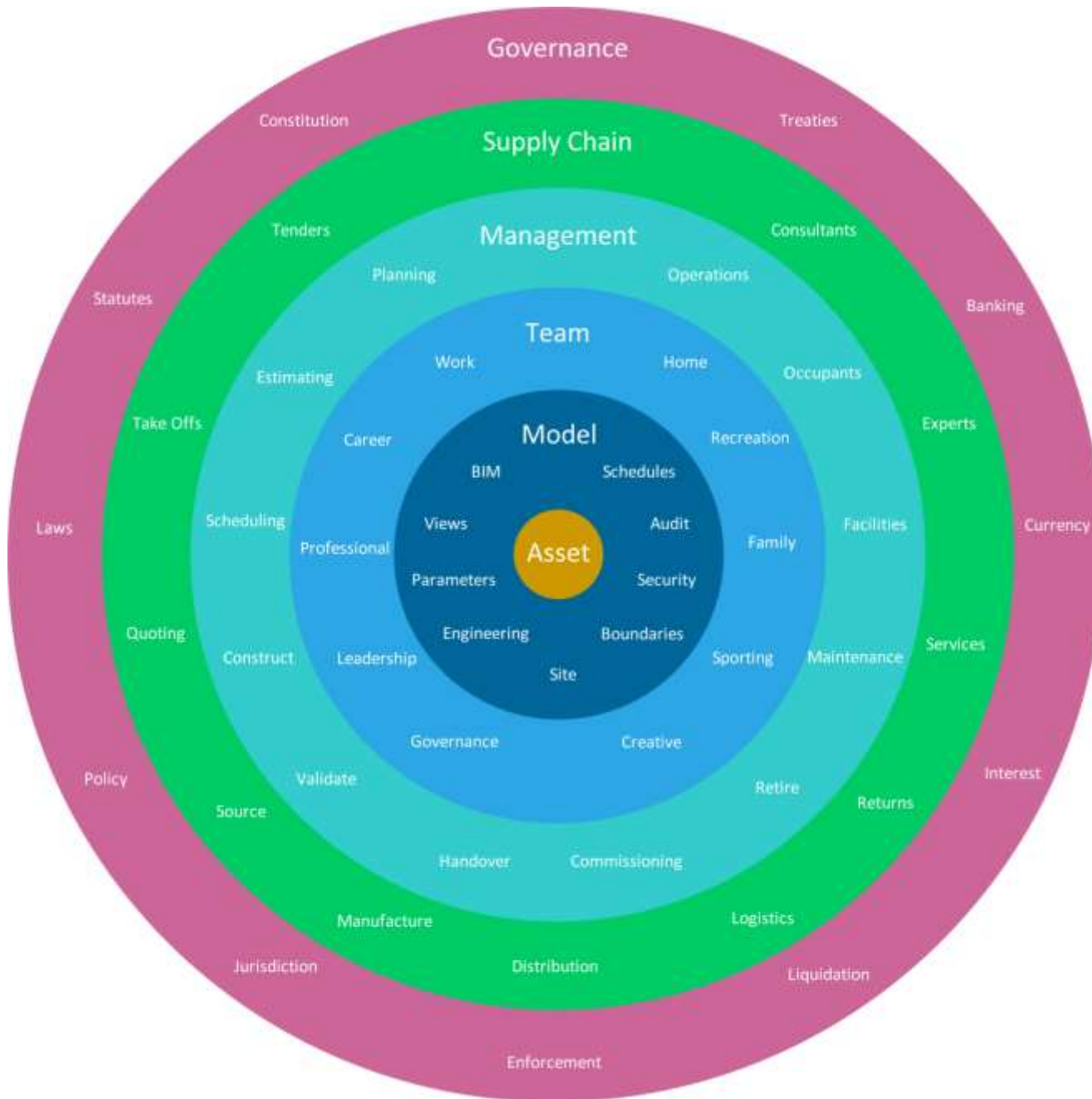


It All Starts With Us. People.





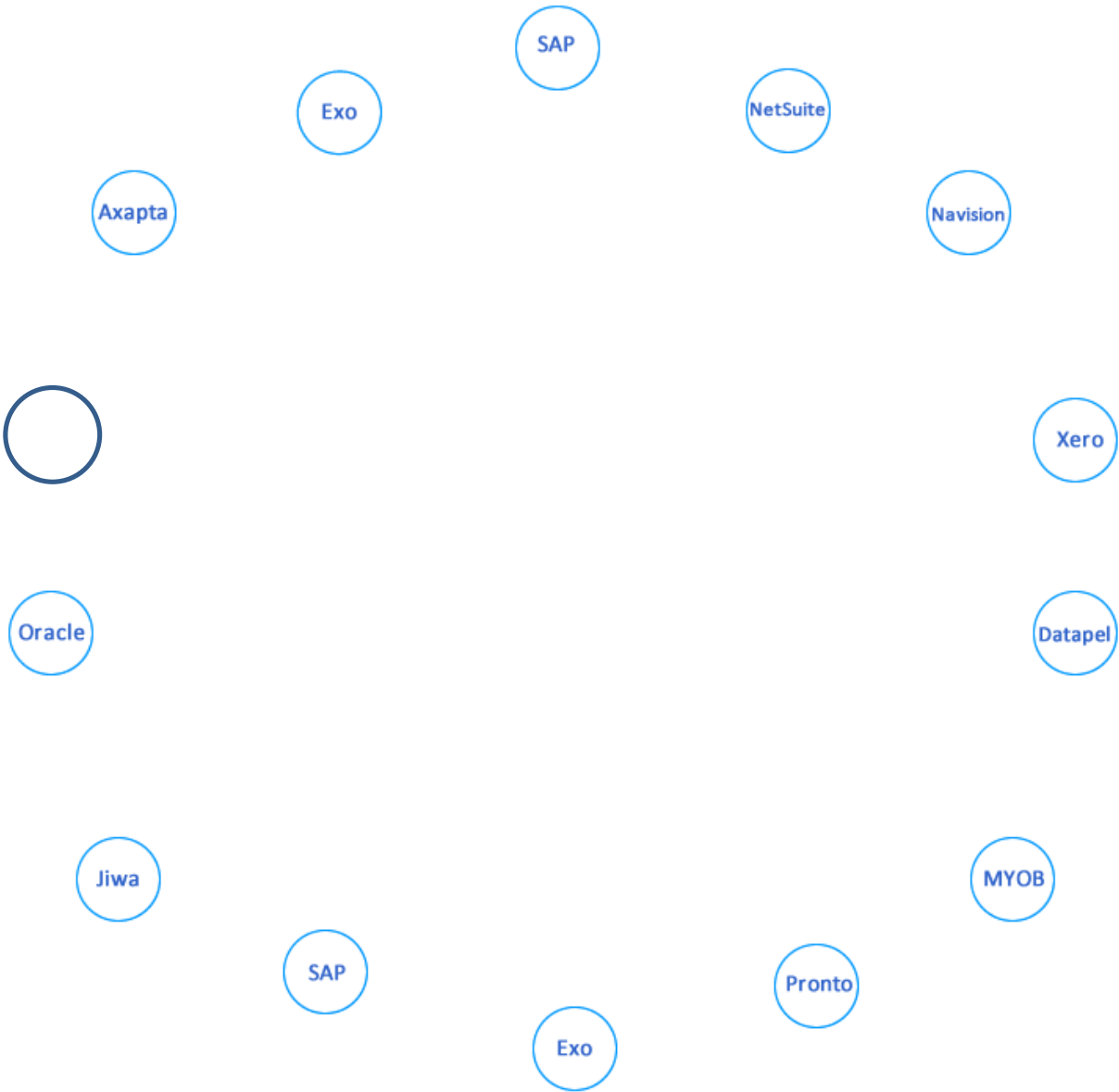
We Work With Organisations.



That Build Assets

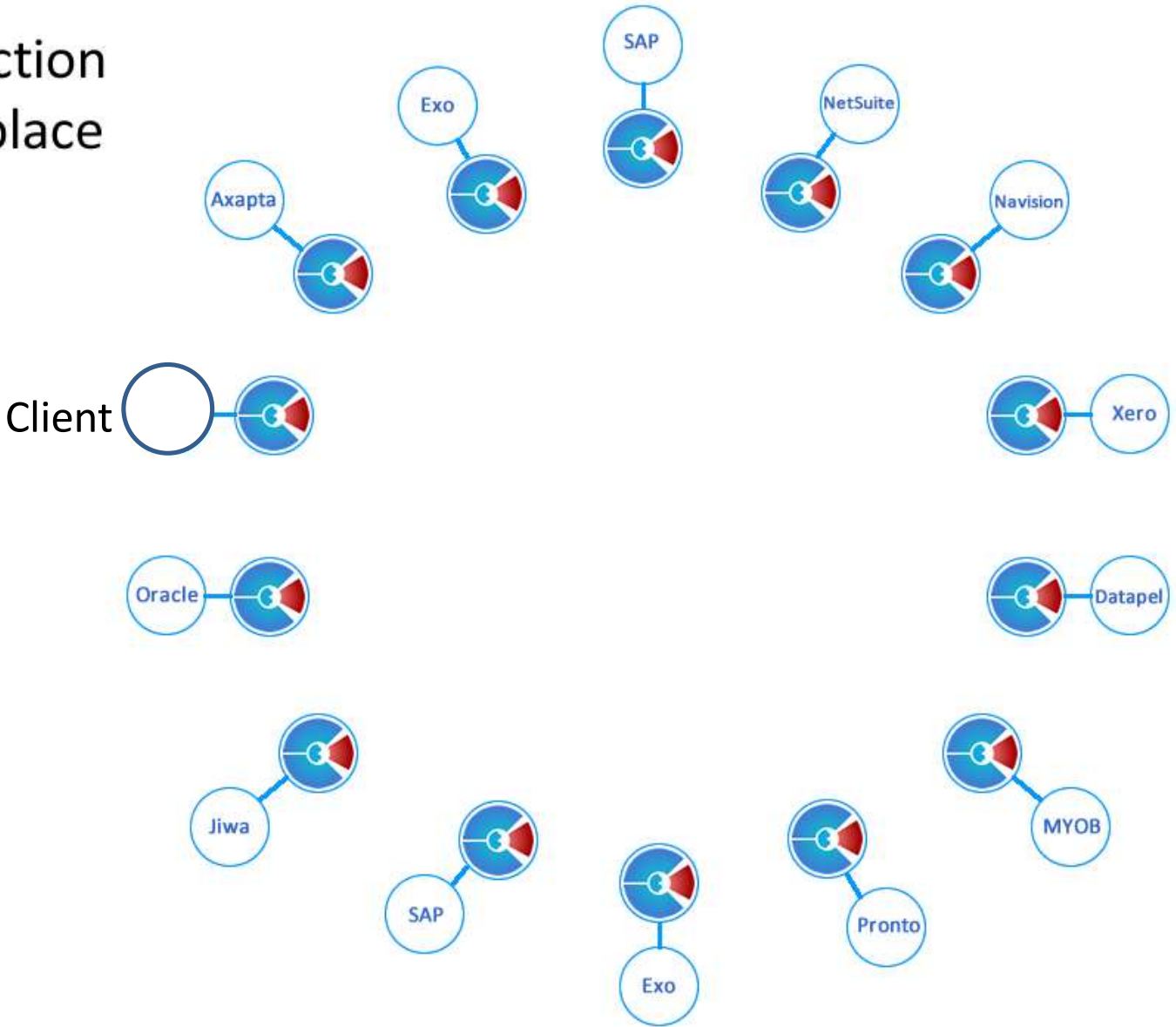
Construction Marketplace

Client 



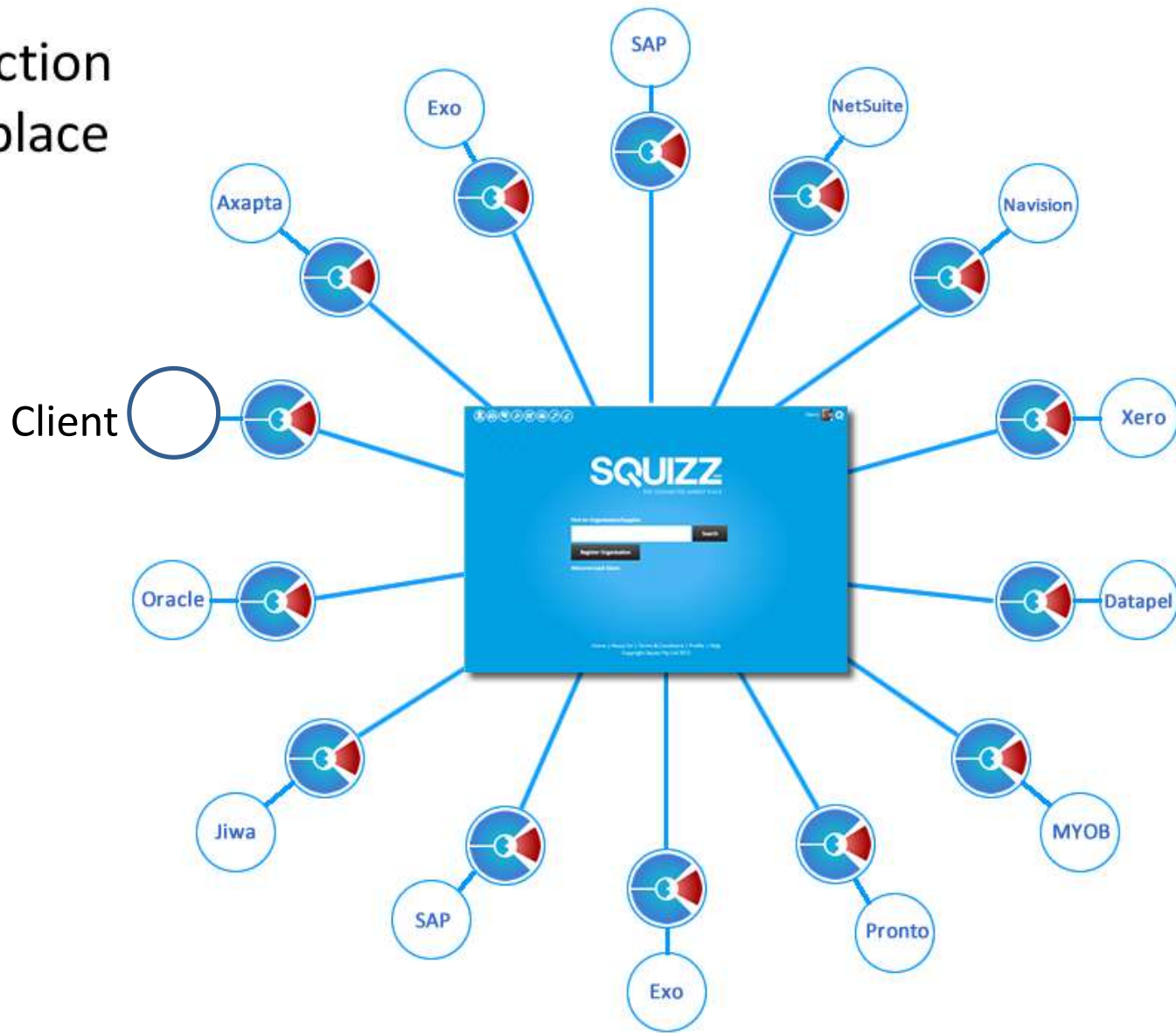
And We All Use Systems

Construction Marketplace



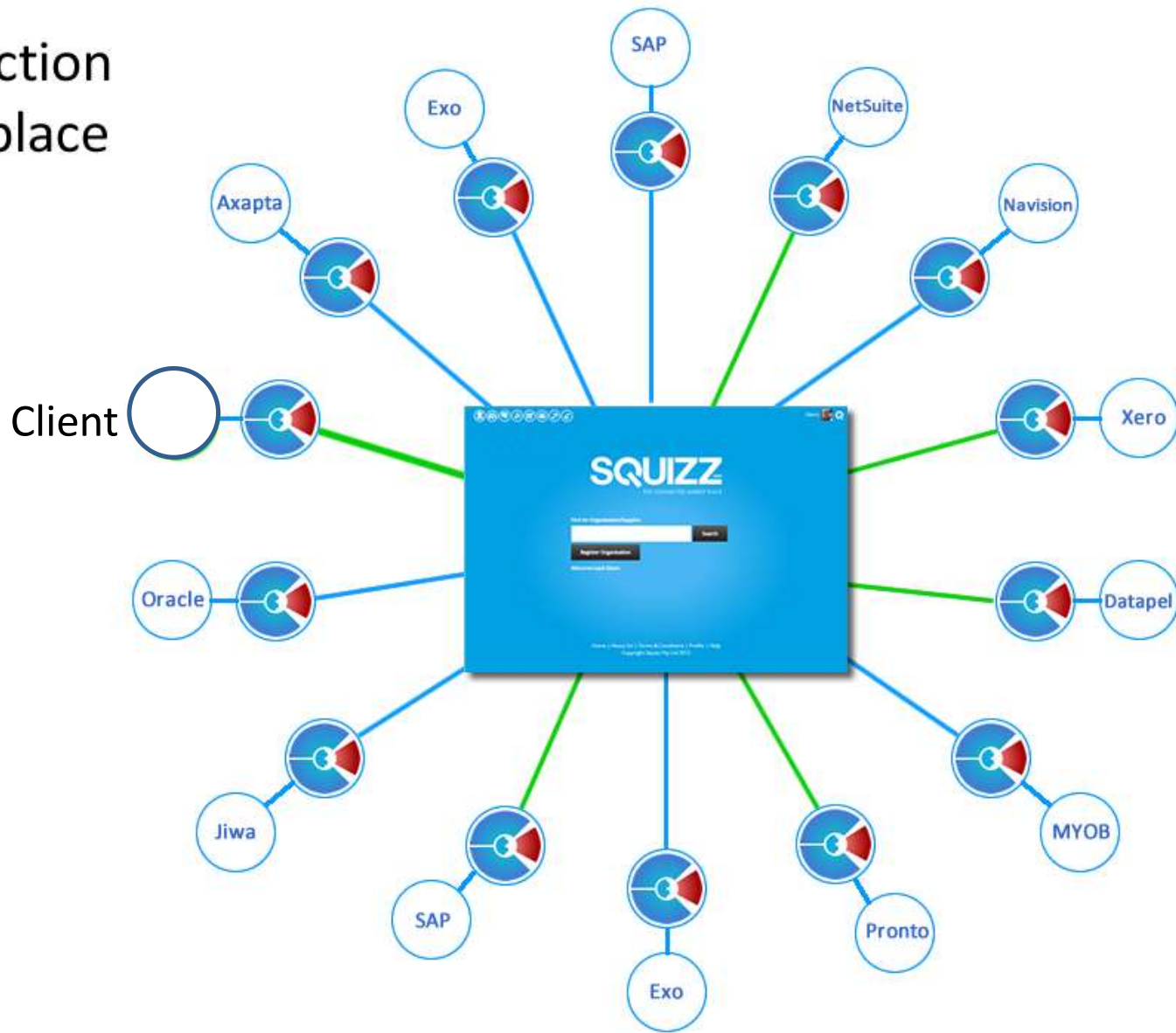
That If Connected

Construction Marketplace



Into A Universal Framework

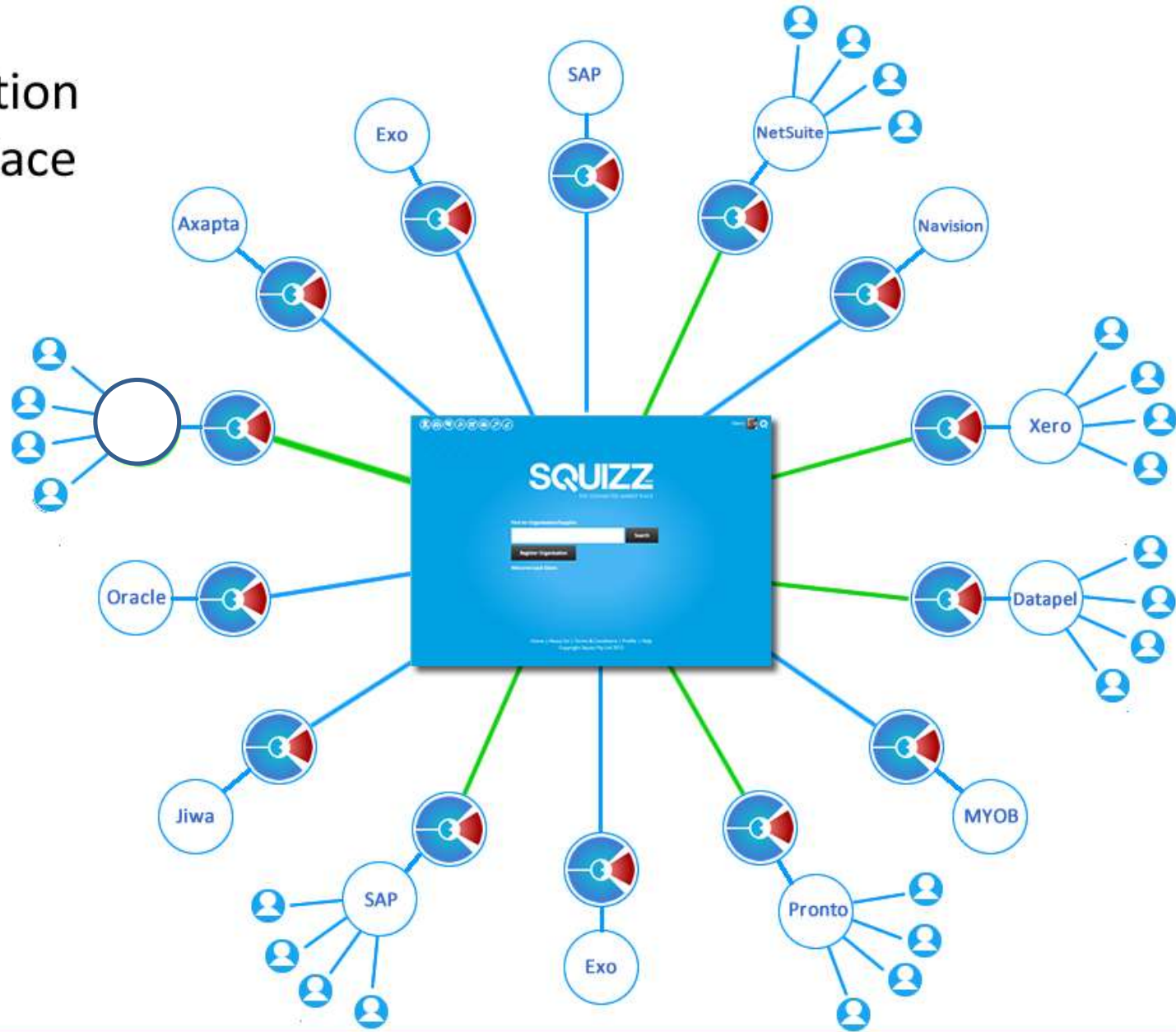
Construction Marketplace



And Establish Commercial Relationships

Construction Marketplace

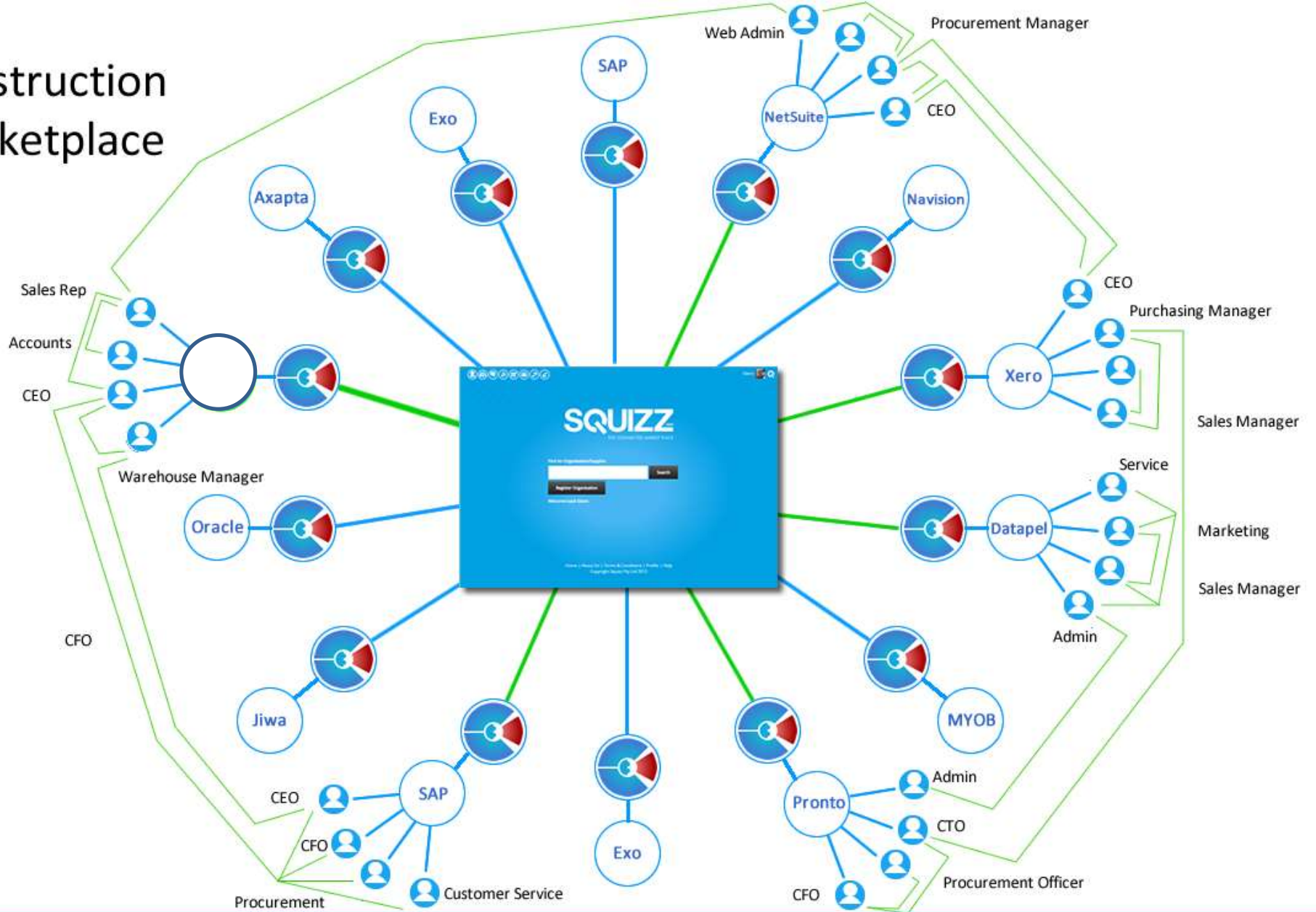
Client



Where All People Come Together

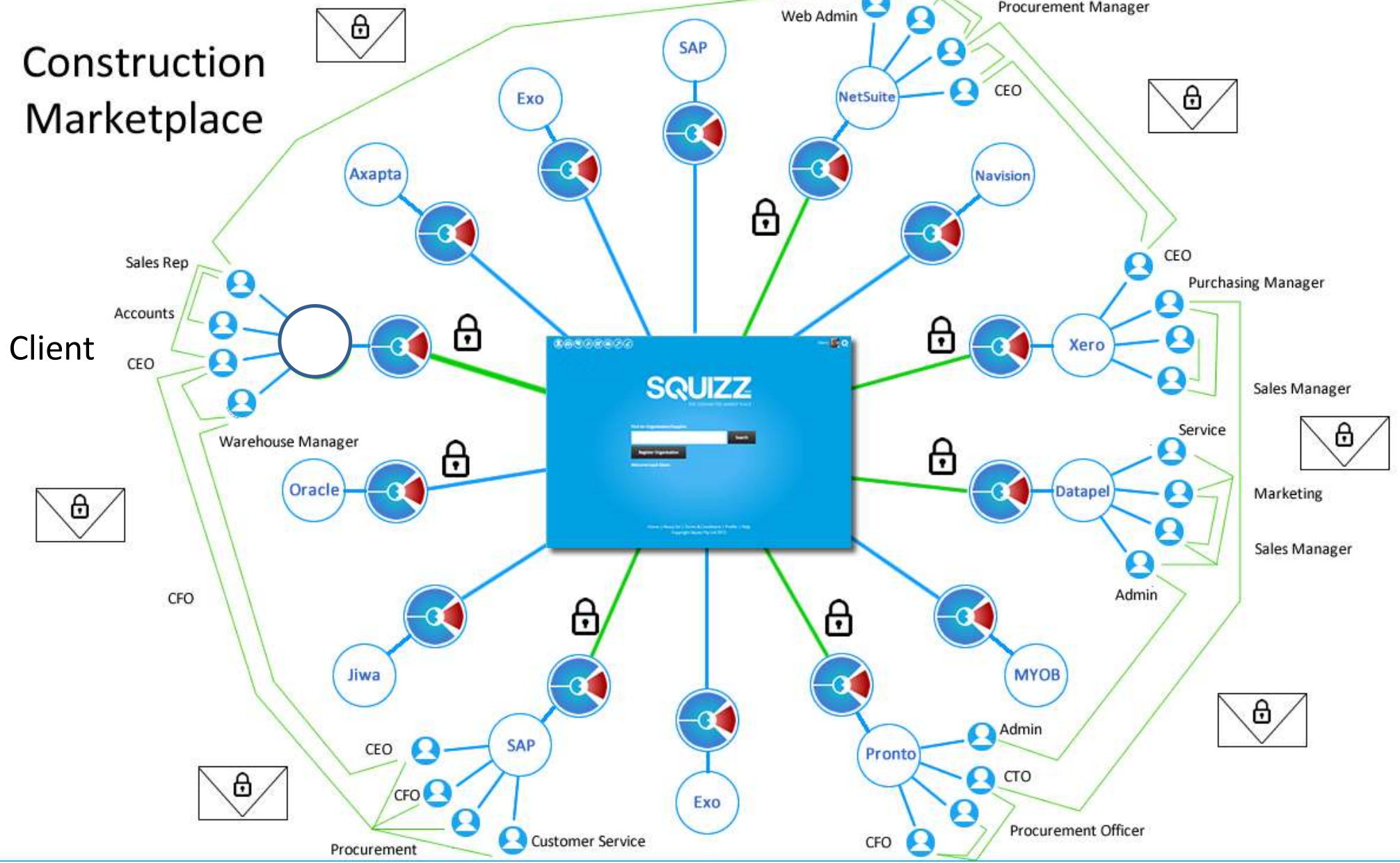
Construction Marketplace

Client



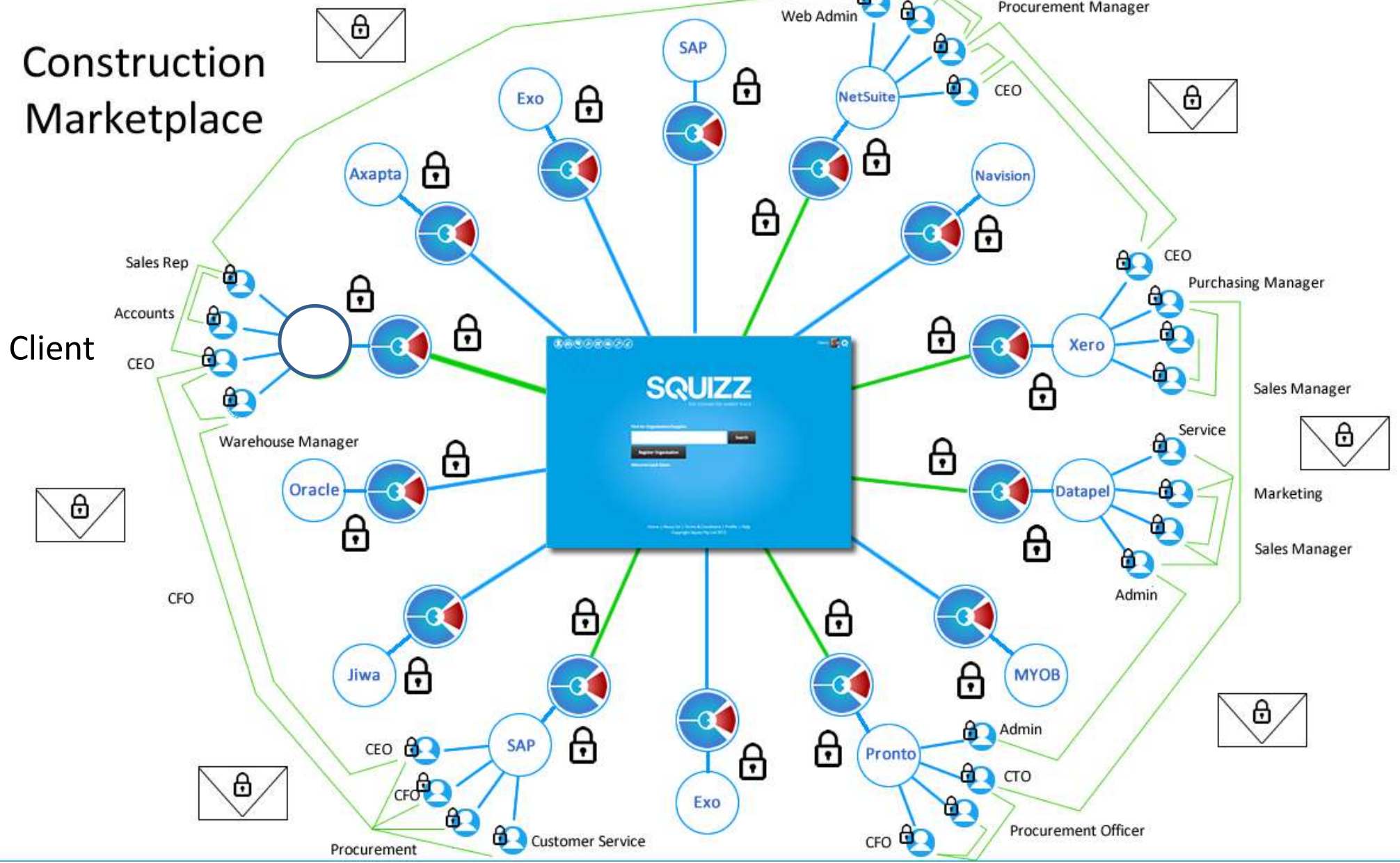
Along With Our Professional Networks

Construction Marketplace



Then We Can Do Business Smarter & Securely

Construction Marketplace



At Scale: 'The Connected Marketplace'

Assets

Marketplaces

Organisations

People

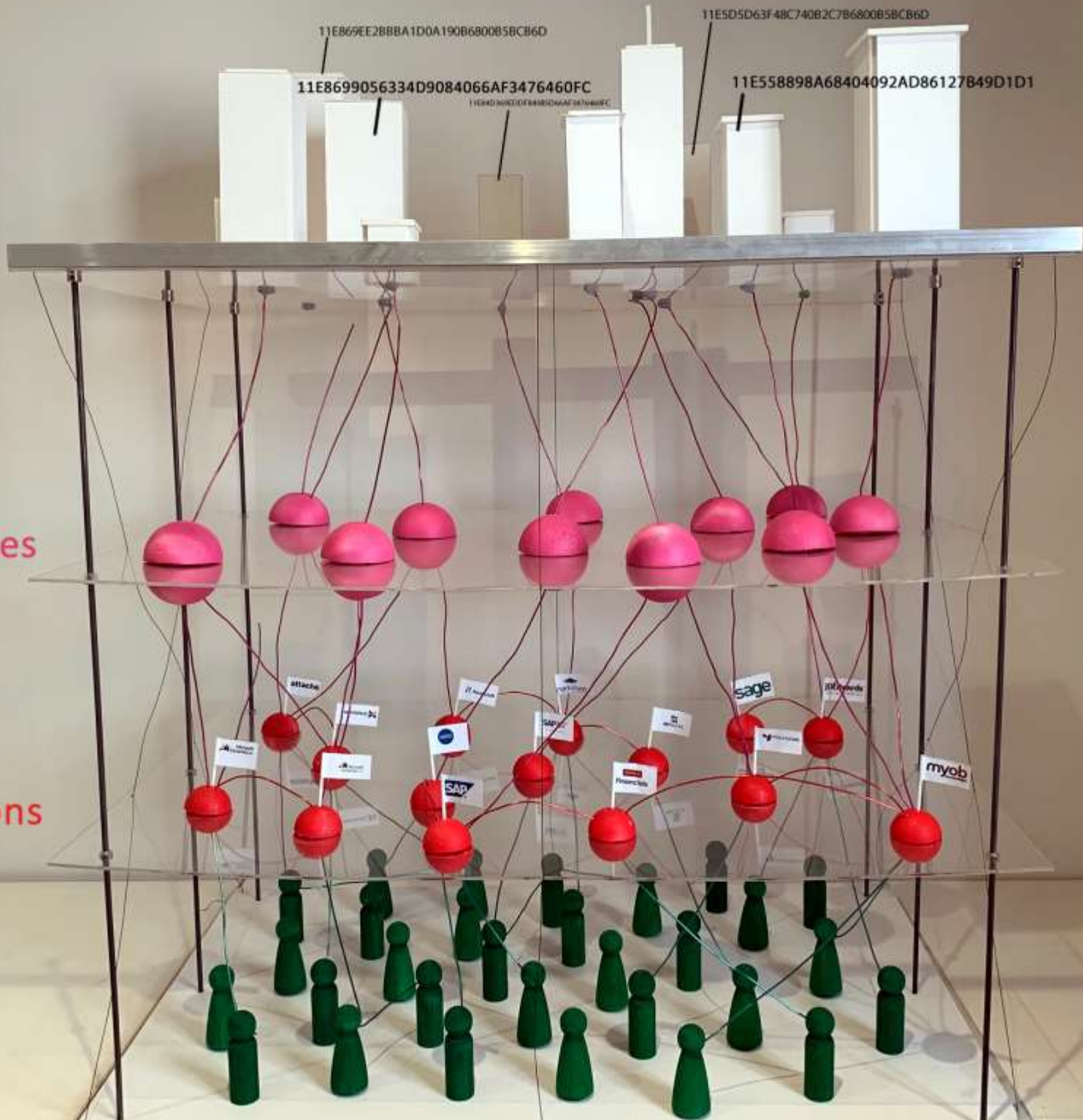


Assets

Marketplaces

Organisations

People



A2K AVAIL

2. Specify Products

R

6. Internal Approval

7. Raise Purchase Order

SAP



15. Goods Received

17. Pay Invoice

1. Catalogue

3. Request A Quote / Tender

5. Send Quote

8. Send Purchase Order

14. Carrier Ship Goods

18. Remittance Slip



4. Raise A Quote / set prices

9. Quote -> Sales Order

10. Print Pick Slip

12. Calc Freight

13. Raise Invoice/s

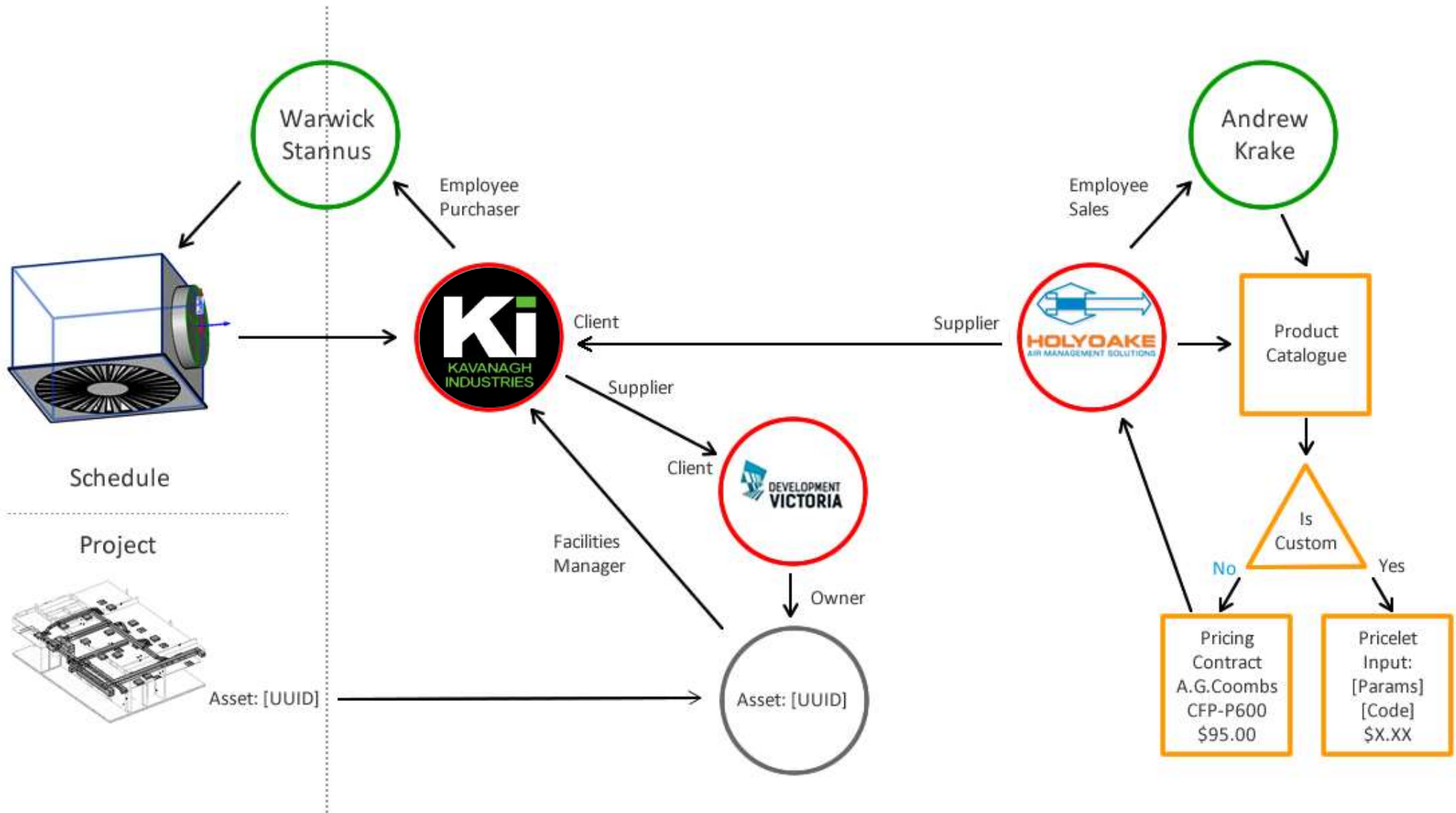
19. Settle

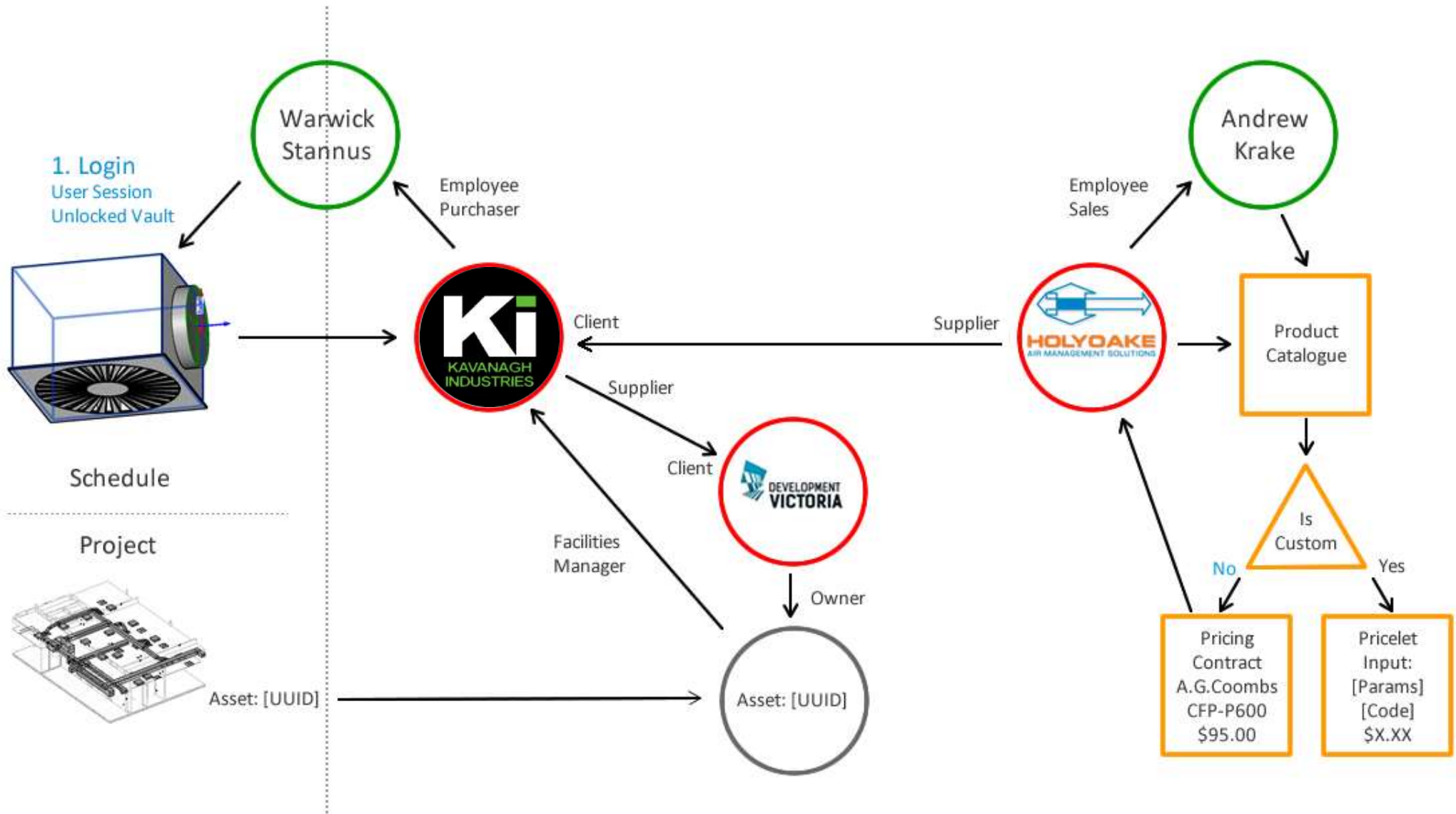


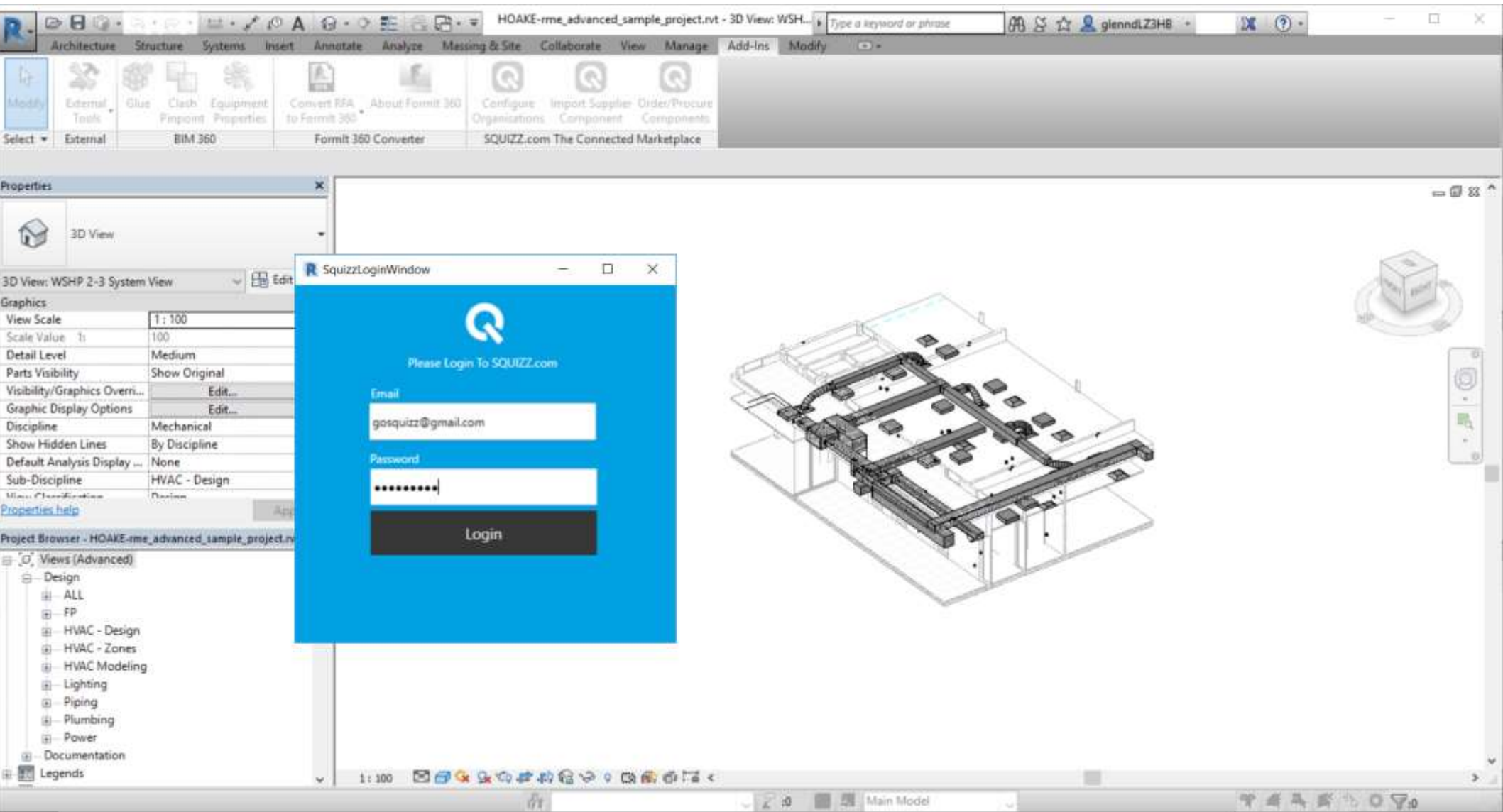
Pronto



Lets Put It Into Action With Revit







Procurement Example: Quoting

HOAKE-rme_advanced_sample_project.rvt - Schedule: Me... Type a keyword or phrase glennDLZ3HB

Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-ins Modify Modify Schedule/Quantities

Modify External Tools Glue Clash Pinpoint Equipment Properties Convert RFA to Formit 360 About Formit 360 Configure Organisations Import Supplier Component Order/Procure Components

Select External BIM 360 Formit 360 Converter SQUIZZ.com The Connected Marketplace

Modify Schedule/Quantities New Define

Properties Schedule

Schedule: Mechanical Equipment Schedule Edit Type

Identity Data View Template <None> View Name Mechanical Equipment Sc... Dependency Independent Phasing Phase Filter Show All Phase New Construction Other Fields Edit... Filter Edit... Sorting/Grouping Edit...

Project Browser - HOAKE-rme_advanced_sample_project.rvt

- Air Terminal
- Electrical Equipment Connection Schedule
- Level 2 HVAC Zone Schedule
- Level 2 Space Airflow Schedule
- Level 2 Space Schedule
- Level 2 WSHP Schedule
- Mechanical Equipment Schedule**
- Space Schedule
- Total Schedule
- Panel Schedules
- Reports
- Sheets (all)
- Families

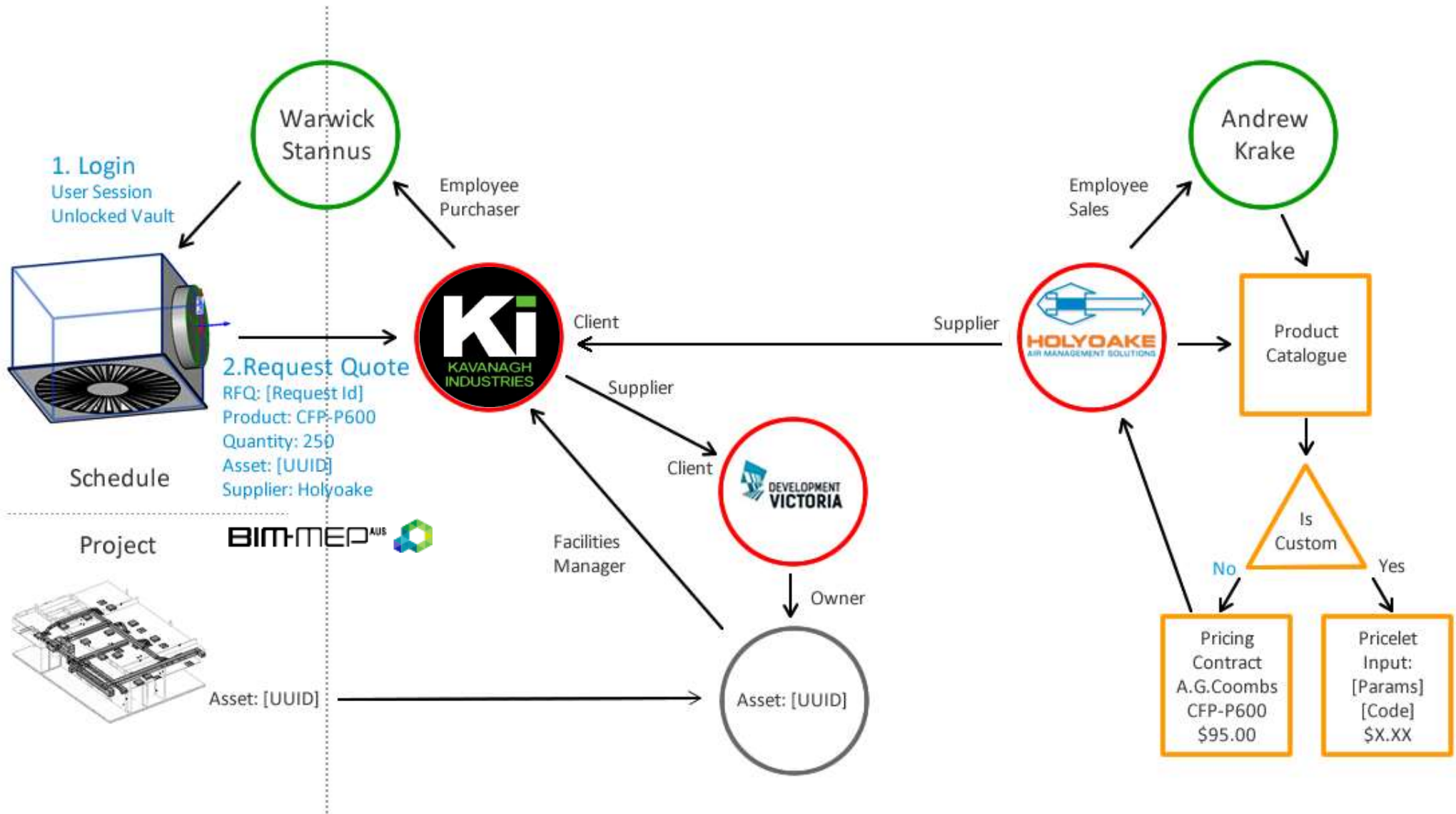
<Mechanical Equipment Schedule>

A	B	C	D	E	F
Family and Type	Panel	Circuit Number	Cost	Count	Family
Level 1					
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 14 kW		<unnamed>	250.00	1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 14 kW		<unnamed>	250.00	1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 7 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 14 kW		<unnamed>	250.00	1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 7 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 7 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Right Return - Back Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Right Return - Back Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Right Return - Back Discharge: 11 kW		<unnamed>		1	M_WSHP - Horizon
Level 2					
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 14 kW	EP-2	13,15,17		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 14 kW	EP-2	20,22,24		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 14 kW	EP-2	38,40,42	250.00	1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 14 kW		<unnamed>	250.00	1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 7 kW	EP-2	32,34,36		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW	EP-2	31,33,35		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW	EP-2	26,28,30		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW	EP-2	19,21,23		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW	EP-2	14,16,18		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Right Return - Back Discharge: 7 kW	EP-2	25,27,29		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 14 kW	EP-2	8,10,12		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Right Discharge: 11 kW	EP-2	7,9,11		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Right Return - Back Discharge: 11 kW	EP-2	1,3,5		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 14 kW	EP-2	2,4,6		1	M_WSHP - Horizon
M_WSHP - Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 11 kW				1	M_WSHP - Horizon
M_Water Heater - Tankless: 2.3 L	PP-2A	7		1	M_Water Heater -

Ready :0 Main Model



Procurement Example: Quoting



HOAKE-rme_advanced_sample_project.rvt - Schedule: Me... Type a keyword or phrase glennLZ3HB

Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify **Modify Schedule/Quantities**

Modify External Tools Glue Clash Pinpoint Equipment Properties Convert RFA to Formit 360 About Formit 360 Configure Organisations Import Supplier Component Order/Procure Components

Select External BIM 360 Formit 360

Modify Schedule/Quantities New Delete

Properties Schedule

Schedule: Mechanical Equipment Schedule Edit Type

Identity Data View Template <None> View Name Mechanical Equipment Sc... Dependency Independent

Phasing Phase Filter Show All Phase New Construction

Other Fields Edit... Filter Edit... Sorting/Grouping Edit...

Properties help Apply

Project Browser - HOAKE-rme_advanced_sample_project.rvt

- Air Terminal
- Electrical Equipment Connection Schedule
- Level 2 HVAC Zone Schedule
- Level 2 Space Airflow Schedule
- Level 2 Space Schedule
- Level 2 WSHP Schedule
- Mechanical Equipment Schedule**
- Space Schedule
- Total Schedule
- Panel Schedules
- Reports
- Sheets (all)
- Families

Order/Procure Components

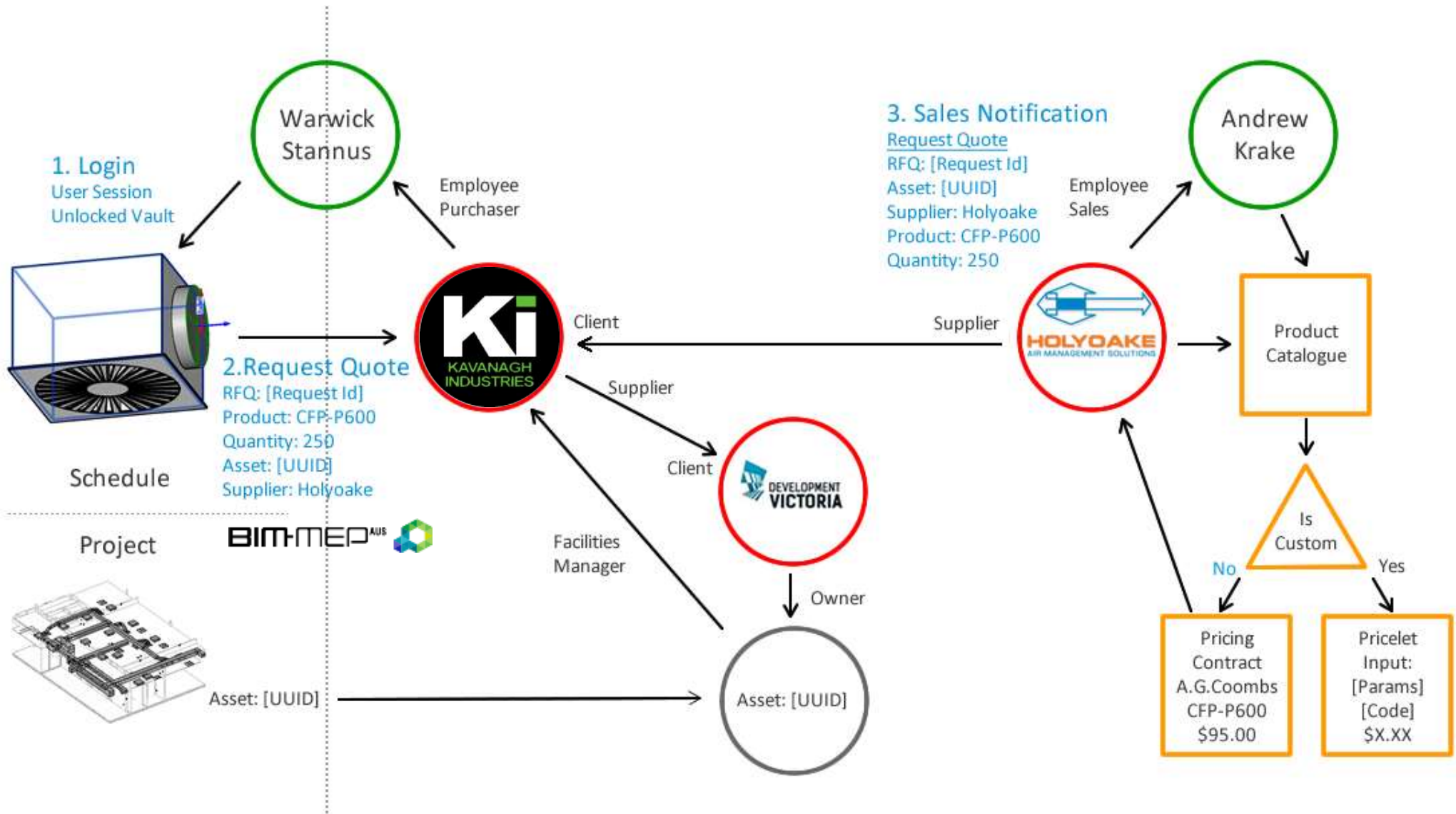
View and select component products to purchase from supplier organisations registered in SQUIZZ.com

Supplier Org.	Component	Product Code	Quantity	Measure	Unit	Unit Price	Total Price	Availability		
Level 1										
<input checked="" type="checkbox"/>	Holyoake - 2 Components									
<input checked="" type="checkbox"/>	Swirl Air Diffus CFP-P600		1	0	Each	0.00	0.00	0		
Level 2										
<input checked="" type="checkbox"/>	Unspecified Supplier - 12Components									
<input type="checkbox"/>	Unspecified Sup 14 kW - M_WSH		8	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 11 kW - M_WSH		11	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 7 kW - M_WSHF		6	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 14 kW - M_WSH		5	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 7 kW - M_WSHF		1	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 5.7 Square Mete		1	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 11 kW - M_WSH		6	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 18 kW - M_WSH		2	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 11 kW - M_WSH		2	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 177 kW - M_Coc		1	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 1383-2808 LPS -		1	0	Each	0.00	0.00	0		
<input type="checkbox"/>	Unspecified Sup 2.3 L - M_Water		1	0	Each	0.00	0.00	0		
							Tender	Quote	Cost	Procure/Order
M_WSH	Horizontal - High Efficiency - 7-18 kW - Right Return - Back Discharge: 11 kW						EP-2	1,3,5	1	
M_WSH	Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 14 kW						EP-2	2,4,6	1	
M_WSH	Horizontal - High Efficiency - 7-18 kW - Left Return - Back Discharge: 11 kW								1	
M_Water	Water Heater - Tankless: 2.3 L						PP-2A	7	1	

Ready :0 Main Model







Procurement Example: Quoting



Procurement Example: Quoting

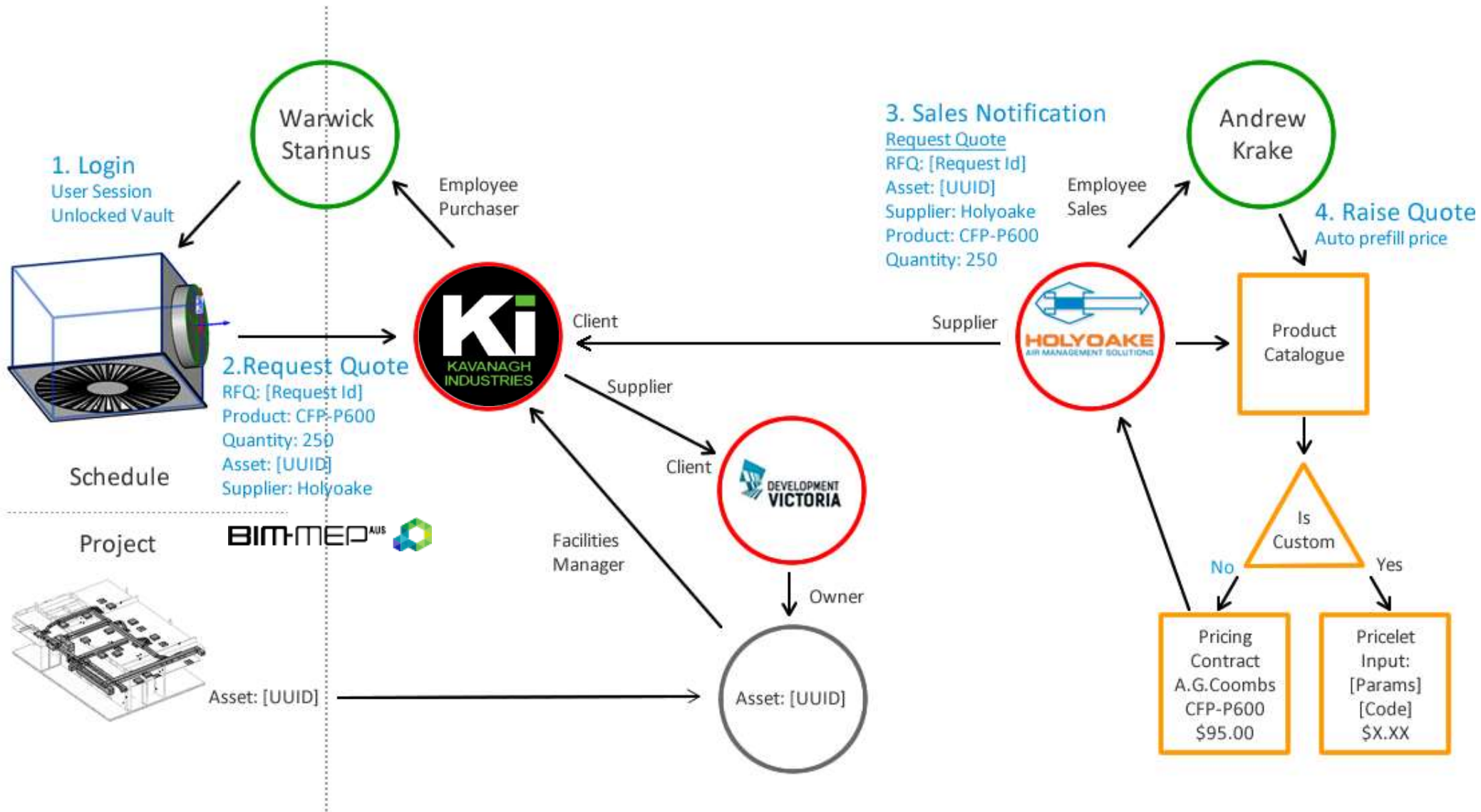
NOTIFICATIONS ME ORG

SALES ORGANISATION NOTIFICATIONS

-  A Request For Quote has been submitted to Holyoake Industries from Kavanagh I. for project: 131 Bourke Street Melbourne VIC 3003
08:49 PM 31/03/2017 Unread
-  A Request To Tender has been submitted to Holyoake Industries from Hansen Yunchen for project: Victorian Pride Centre
08:49 PM 31/03/2017 Unread
-  Aweb sales order has been exported from TOTECS PTY LTD. ID: 11E715F758F90670BEA96AF3476460FC
08:49 PM 31/03/2017 Unread
-  Aweb sales order has been imported into TOTECS PTY LTD. ID: 11E715F758F90670BEA96AF3476460FC
08:49 PM 31/03/2017 Unread



Procurement Example: Quoting



Procurement Example: Quoting

- NOTIFICATIONS ME ORG
- 0
- 0
- 0
- 0
- 0
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- 0
- 0
- 0
- 6

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- Ki** KAVANAGH INDUSTRIES
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08:49 PM 31/03/2017 Unread

Quotation Order Request



For: Holyoake Industries



From: Kavanagh Industries

Purchase Order ID
11E715F7660F8CD08E18B6800B5BCB6D


Created Date 08:49 PM 31/03/2017
Last Modified Date 08:49 PM 31/03/2017
Sent Date 08:49 PM 31/03/2017

Supplier Account Code HOAKE-001
Supplier Account Name HolyoakeIndustries
Sales Order ID
Sales Order Number

Billing Address

Delivery Address

Lines

Product Code	Product Name	Unit	Price	Tax	Quantity	Discount	Total Price	Options
CFP-P600	Radian Swirl Diffuser P600	Each	95.00	9.50	250	Contract	23,750	
							Subtotal	23,750
							Credit Card Surcharge	N/A
							Total Surcharges	
							Goods And Services Tax	2,375
							Total Taxes (Inclusive of Goods And Services Tax)	2,375
							Final Total (AUD)	26,125

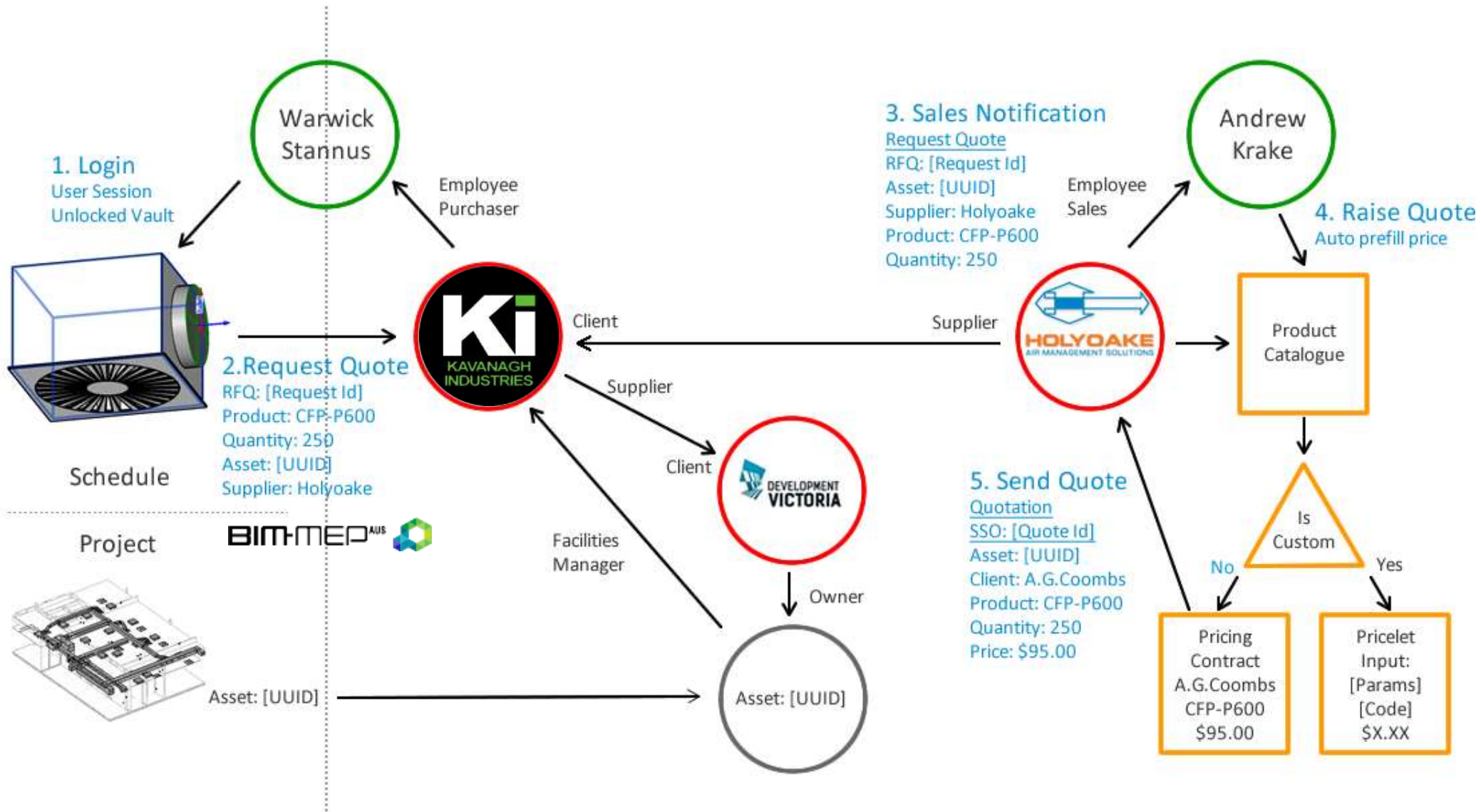
Instructions

Dispatching

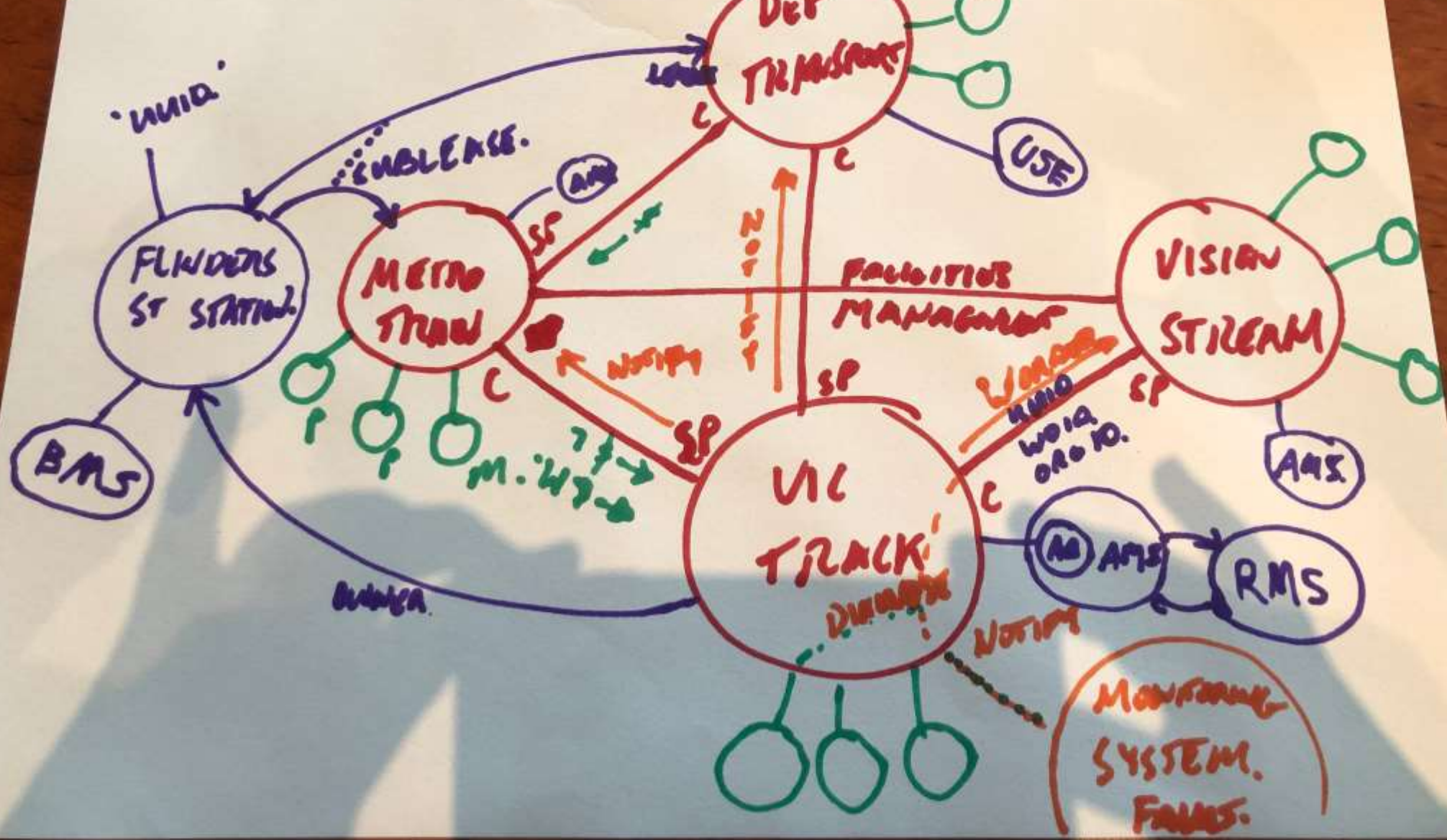
Post



Procurement Example: Quoting



Procurement Example: Quoting



Smart Cities Innovators Round Table



- DESIGN, SCHEMATIC
- MEASURE
- QUOTE/AVAILABILITY, ACCESS
- PURCHASING
- DEMO - INSTALLATION, COMMISSIONING
- DEFECTS - REWORK
- PAY
- QUALIFICATION



Smart Cities Innovators Round Table

Get In Touch

Sign Up & Connect With Me On SQUIZZ.com

Invite Code: **GLE-F6ZV-MFQ**

Add me to a Conversation and lets chat

Find the Organisation called '**SQUIZZ Smart Cities**'
and follow the public feeds

Ph: 0420 331 459 Em: glenn.c.drew@squizz.com



Thank You