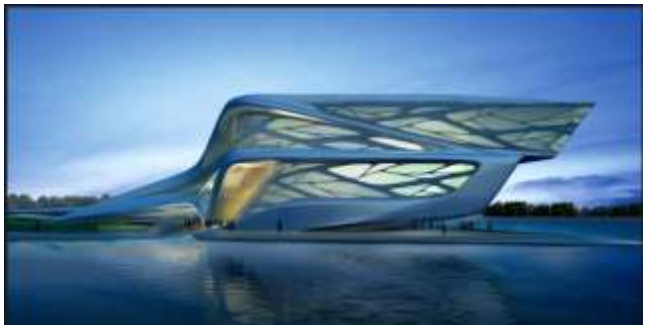
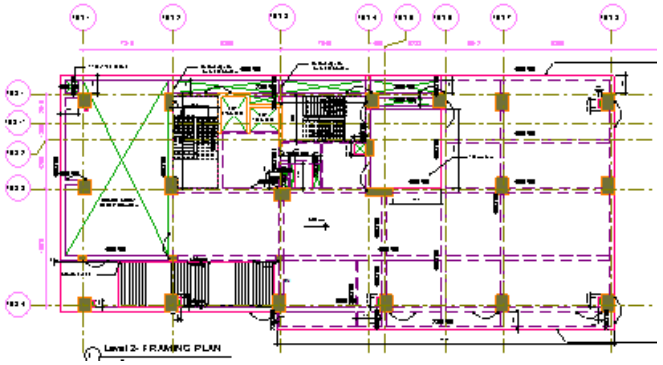
WHAT IS BIM-

BIM (Building Information Modeling) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure.

INDUSTRIES

- Architecture
  - Concept Design
  - 3d-Rendering
  - Documentation

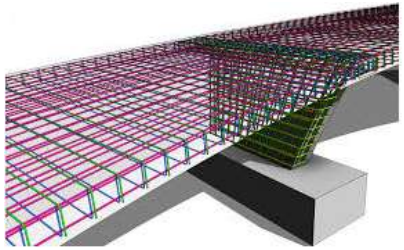


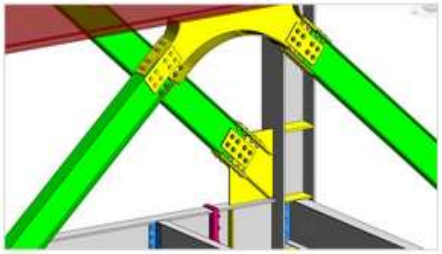


INDUSTRIES

Structure

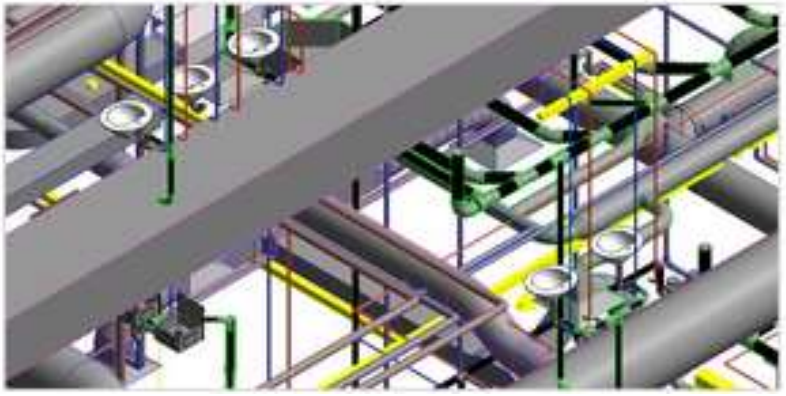
- Coordinate Model with multiple discipline
- Minimize Errors
- Estimate Steel And RMC quantity





MEP

- Resolve clashes between Services and structure.
- Produce coordinated design faster and deliver project quickly.
- Generate better estimation from model.
- Reduce the rework at site.



INDUSTRIES

Construction

Unify information and teams—in the office or the field—within a common data environment.
BIM helps you deliver projects with improved efficiency and quality.

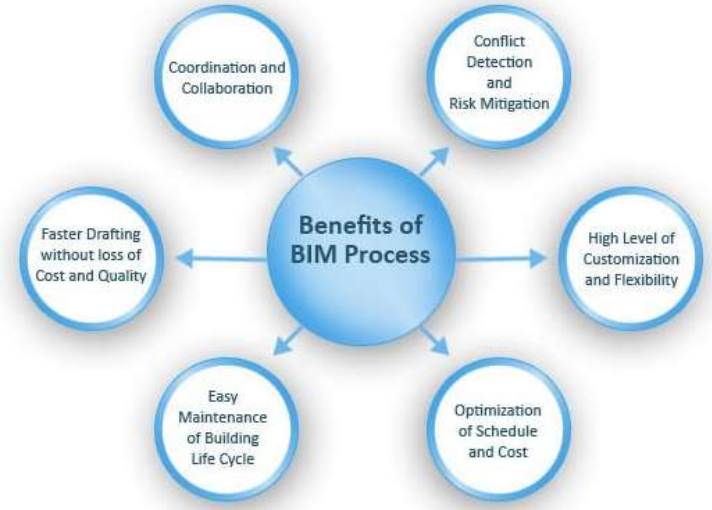
Gather data captured from drones, sensors, and laser scans. Use it in connected workflows for site visualization, engineering calculations, project progress tracking, safety analysis, and more.

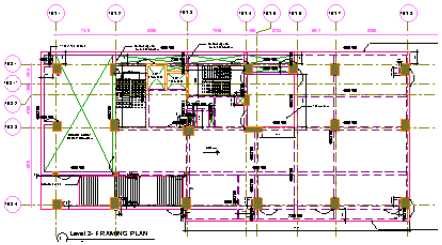
Create apps and services to connect workflows using web service components. Digitize the job site and integrate technology for designers, engineers, contractors, and owners.

Connect BIM asset data from construction to facilities management, speeding handover. Building owners can better manage portfolios using BIM and the Internet of Things.

BIM BENEFIT

Project performance	Risk factor
Quality related problems	Improper construction methods
	Poor communication between involved parties
	Supplies of defective materials
Time overruns	Quality problems
	Cost overruns
	Improper construction methods
	Poor communication between involved parties
	Delayed payment in contracts
Cost overruns	Fluctuation of materials prizes
	Unsuitable leadership style





MATERIAL TAKEOFF SHEET

MATERIAL DESCRIPTION	MAKE	RATE	3BHK+2TOILETS (1405)	
			AREA IN SQFT/ NO.	AMOUNT
600X600 VITRIFIED TILES - FLOORING	ANALCO	35	611	21,385
LAMINATED WOODEN FLOORING	ACTION	40	161.7	6,468
300X300 ANTI SKID CERAMIC TILES- FLOORING	ANALCO	22	215.28	4,736
CERAMIC WALL TILE IN TOILET (300X600)	ANALCO	21	149	3,129
CERAMIC WALL TILE IN TOILET (300X450)	ANALCO	18	133	2,394
CERAMIC WALL TILE IN KITCHEN (300X450)	ANALCO	18	27.8	500
TOILETS- GRANITE COUNTER		100	8	800
KITCHEN- GRANITE COUNTER		100	13.9	1,390
MIRROR	PARRY WARE	1,100	2	2,200
MIRROR-SERVANT		150		
WC (FLOOR MOUNTED)	PARRY WARE	3,333	2	6,666
WC (FLOOR MOUNTED)-SERVANT	PARRY WARE	2,930		
TOILET Wash Basin (COUNTER TOP)	VANITY/COUNTER TOP BASIN-PARRY WARE	5,663	2	11,326
WASH BASIN	HINDWARE	770	1	
Single Bowl Sink- KITCHEN	SMALL- NIRALA	3,228	1	3,228
CP FITTING - TOILET	GROHE / PARRY WARE	7,200	2	14,400
CP FITTING - TOILET-SERVANT	HINDWARE	2,050	1	

FINISHES- QUANTITY

<Multi-Category Material Takeoff>

A	B	C	D
Family and Type	Material: Name	Material: Area	Material: Volume
Basic Wall: Generic - 200mm	Concrete, Precast	22 m²	4.36 m³
Basic Wall: Generic - 200mm	Concrete, Precast	10 m²	1.82 m³
Basic Wall: Generic - 200mm	Concrete, Precast	17 m²	3.33 m³
Basic Wall: Generic - 200mm	Concrete, Precast	15 m²	2.99 m³
Basic Wall: Generic - 200mm	Concrete, Precast	19 m²	3.61 m³
Basic Wall: Generic - 200mm	Concrete, Precast	38 m²	7.68 m³
Basic Wall: Generic - 200mm	Concrete, Precast	30 m²	6.00 m³
Basic Wall: Generic - 200mm	Concrete, Precast	11 m²	2.16 m³
Basic Wall: Generic - 200mm	Concrete, Precast	38 m²	7.69 m³
Basic Wall: Generic - 200mm	Concrete, Precast	27 m²	5.40 m³
Basic Wall: Generic - 200mm	Concrete, Precast	17 m²	3.48 m³
	Concrete, Precast	10 m²	1.92 m³
	Concrete, Precast	14 m²	2.71 m³
	Concrete, Precast	6 m²	1.12 m³
	Concrete, Precast	3 m²	0.53 m³
	Concrete, Precast	6 m²	1.21 m³
	Concrete, Precast	3 m²	0.62 m³
	Concrete, Precast	7 m²	1.33 m³
	Concrete, Precast	5 m²	1.00 m³
	Concrete, Precast	6 m²	1.14 m³
	Concrete, Precast	6 m²	1.28 m³
	Concrete, Precast	10 m²	1.92 m³

RMC AND STEEL-QUANTITY

<Duct Schedule>

A	B	C	D	E	F	G
Description	Width	Height	Length	Width Area	Height Area	Total Area
Galvanized Steel						
Galvanized Steel	8"	6"	176' - 3"	231 SF	173 SF	1143 SF
Galvanized Steel	8"	8"	52' - 11"	69 SF	69 SF	991 SF
Galvanized Steel	8"	10"	2' - 5"	3 SF	4 SF	7 SF
Galvanized Steel	9"	9"	13' - 7"	20 SF	20 SF	401 SF
Galvanized Steel	9"	11"	6' - 4"	9 SF	11 SF	108 SF
Galvanized Steel	9"	12"	14' - 1"	21 SF	28 SF	579 SF
Galvanized Steel	10"	6"	1' - 11"	3 SF	2 SF	3 SF

MEP-QUANTITY

Thank You