

**ENGINEERING & MANAGEMENT SOLUTIONS** 

TURNING
YOUR BUSINESS



INTO REALITY

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**TESTIMONIALS** 





**ENGINEERING & MANAGEMENT SOLUTIONS** 

Master VDC / TOWND is a Leading Consulting Firm With Over a Decade Of Extensive Global Experience, Where Our Technical Expertise Provides a Blend Of Practical & Technical Knowledge, Utilizing Cutting-Edge Technology, Something That Catered For Over a 100 Successful Projects.



### **VISION**

"We Are Investing In Talents To Defy, Tame, and Address Challenges For The Best Of Our Customer's Interest, Utilizing State-Of-The-Art Technology In Design & Projects Management, Communicated In Many Tongues, Aiming To Be The Consultant Of Choice In The Global Market"

### **MISSION**

"Well-Prepared Experts Ready To Deliver World-Class Qualit In BIM, Engineering & Projects Management Working In The Framework Of Integrity & Customer Satisfaction"

### **VALUES**









Integrity

Quality

Commitment

Out-ranking Values Over Profit"

"We Are Challenging Ourselves To Maintain Sustainable Business While

**Engineering That Meant** For **Better World** 



### **TOWND SERVICES**

### Value Engineering and **Design Review Creating**

Concept, Schematic, Design And Turning Them Into BIM Coordinated Models.

**Technical Review** 

Effcient Solutions.

Provide Variety Of Building

Performance analysis To Veriety **Energy Perfarmance And Suggest** 



**Site Inspection** 

Cap-tures As-Built Geometry And Provides The Most Accurate Data For Various Purposes.



**Site Supervision** 



Through BIM Certified Expert's API Automation Solutions To Help **Turn Information** Into Insight.



safety, energy efficiency, operation performance and cost-efficiency.

## **Supervision, Technical Review &**

Our engineering designs integration ensure



### **Digital Transformation & Specialties**

Digital Transformation and BIM Advanced Services

### **DESIGN to BIM**



Creating concepts, schematic designs and turning them into BIM coordinated models.

### **VIRTUAL & AUGMENTED REALITY**

Provide various Rendering and Visualization services for various purposes and in different project phases.



#### SUSTAINABILITY ASSESSMENT

Provide variety of building performance analysis to verify energy performance and suggest efficient solutions.



#### **SCAN to BIM**

Cap-tures as-built geometry and provides the most accurate data for various purposes.



### J RESEARCH & **DEVELOPMENT**

Through BIM certified expert's API **AUTOMATION** solutions to help turn information into insight.

## **Project Management**

Utilize latest Technologies And Techniques To Manage Your Project.



Planning

Execution 3

Monitoring & Control

1. Manage resources

2. Monitor project

performance

and reports

3. Risk management

4. Perform status meetings

5. Update project schedule



- 1. Document business case and feasibility study
- 2. Assemble a project team
- 3. Set up a project office
- 1. Create a task list
- 2. Make a budget
- 3. Create a risk management plan
- 4. Create a communications plan
- 5. Make a project schedule
- 6. Assign tasks to team members
- 1. Task management
- 2. Time management
- 3. Cost management
- 4. Quality management
- 5. Change management
- 6. Procurement management

8. Collaboration

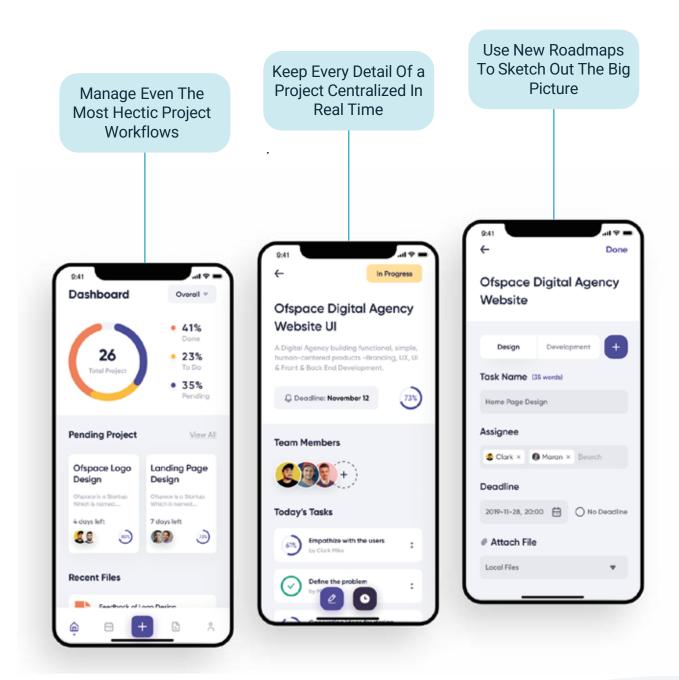
- 6. Modify project plans 7. Resource management

- 1. Confirm completion
- 2. Transfer deliverables 3. Initiate billing and
- revenue workflows
- 5. Release resources
- 6. Do a post-mortem

4. Review documentation



### PROJECT MANAGMENT MOBILE APPLICATION



### WE WORK WITH VALUABLE CLIENTS AND PARTNERS



























**Drake & Scull** 































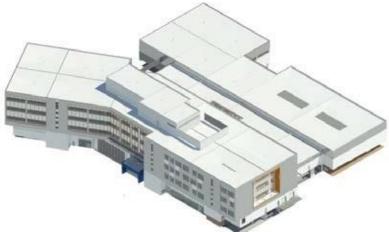


**ENGINEERING & MANAGEMENT SOLUTIONS** 

## **UNE NOUVELLE ECOLE** A MONTREAL NORD

MONTREAL, CANADA





**Client**: Extincto Specialists

Area : 27500 SQ.M

Scope: Firefighting coordination and

clash resolution RDJ

Year : Completed





## **SANTA CABRINI HOSPITAL**

MONTREAL, CANADA



**Client**: Extincto Specialists

Area: 12,000 SQ.M

Scope: Firefighting coordination and clash resolution RDJ

Year : Ongoing







## ÉCOLE DE TECHNOLOGIE SUPÉRIEURE (ÉTS) - PAVILION F

MONTREAL, CANADA



**Client**: Extincto Specialists

**Area** : 9,000 SQ.M

**Scope**: Firefighting coordination and

clash resolution RDJ

Year : Ongoing





## LA TOUR TRIANGLE

PARIS, FRANCE



Client: BESIX

Area : ~180M (590 FT) 42 FLOOR

Scope: BIM Masonry Modeling

Structure Load Plans, & BIM

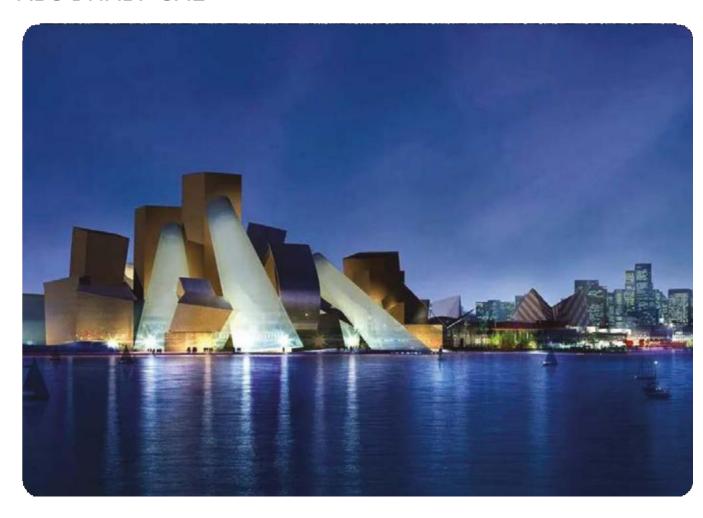
Shop Drawings

Year : Ongoing



### **GUGGENHEIM MUSEUM**

ABU DHABI-UAE



Client: RED / BESIX
Area: 42,000 sq.m

Scope: Full MEP Design Review Services

& BIM Management.

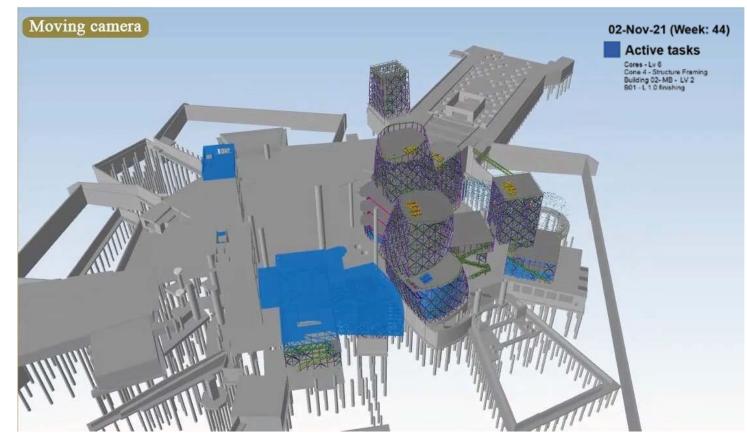
Year : Under Construction

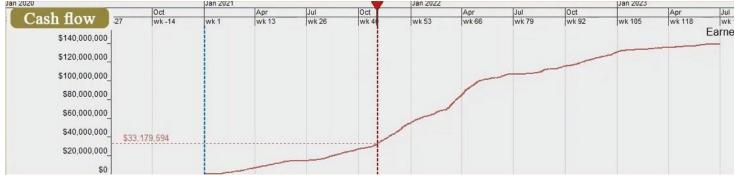
pe: Full MEP Design Re 8. RIM Managemen















## **RESIDENTIAL BUILDING**

BRANTFORD, CANADA



Client: Lakeview
Area: 15,000 SQ.M

Scope: Fire alarm system claim

review

Year : Completed





## **WAREHOUSE**

SCARBOROUGH, CANADA



Client: Top bin

Area: 2,000 SQ.M

Scope: Mechanical and Electrical Design plus structural design of the loading/ unloading steel deck

design



### **BELGIUM PAVILION EXPO 2020**

DUBAI, UAE



Client: Besix

Area: 500 sq.m

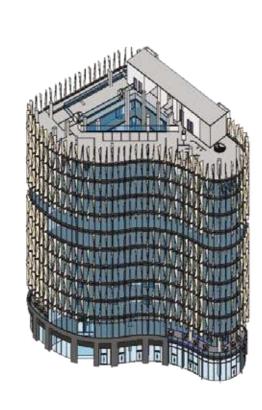
Scope: Full MEP BIM Implementation

& Second Floor Coordination.

Year : 2020

### **ZIA TOWER**

CAIRO, EGYPT





**Client:** Margins Development

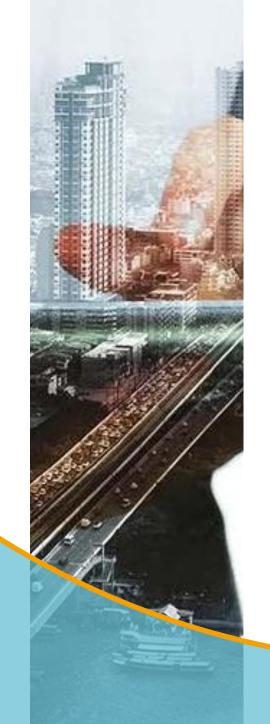
**Area**: 12,150 sq.m

Scope: MEP Design, BIM Implementation,

MEP Shop Drawings, Construction Management & Procurement

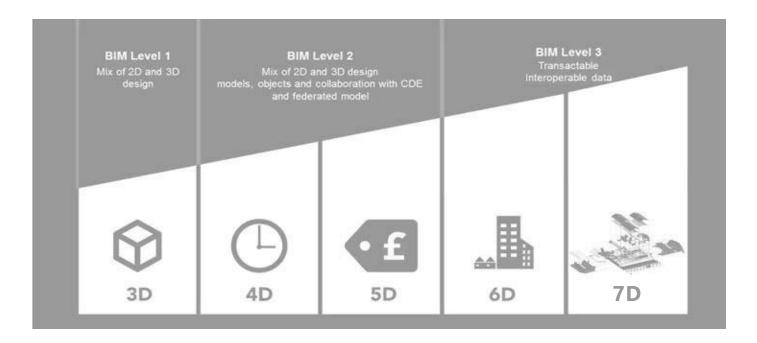
Year : 2021

# DIGITAL TRANSFORMATION & SPECIALTIES

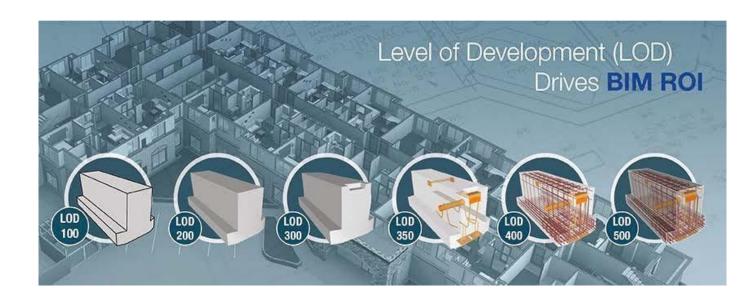




## **DESIGN TO BIM**

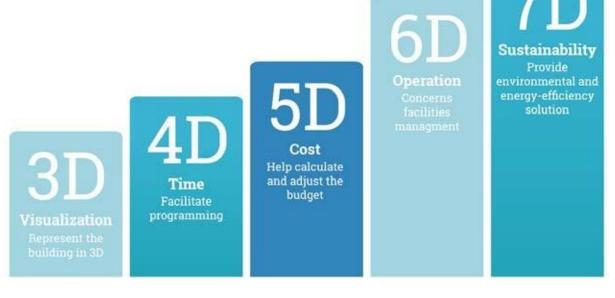


### **DIGITAL TWIN**





## **BIM DIMENSION**



### **VIRTUAL AND AUGMENTED REALITY**







**MEP SPECIALISTS** 





Construction

View your Design

STRUCTURAL







## **SCAN TO BIM**

Planning: Locate Scanning Positions



**Scanning: Process The Scanned Information** 



**Scanning: Accurate Measurements** 



**Delivery:** Achieve Digital Twin Model





### **RESEARCH & DEVELOPMENT**





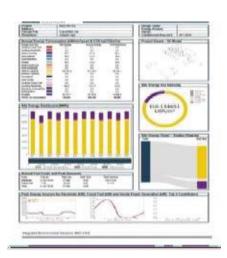
## **Digital Project Management**

- 1. Planning
- 2. Project Controls
- 3. Procurement Management
- 4. Risk Management
- 5. Claimre Solution



### SUSTAINABILITY ASSESSMENT





### **Design Using Digital Tools For Excellent Output**

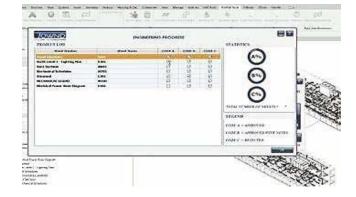
Changes how buildings, infrastructure and utilities are planned, designed, built and managed.

TOWND provides through BIM certified expert's API automation solutions to help turn information into insight value at every step in the process.

**TOOLS SAVE TIME & EFFORTS UP TO 70%** 



#### **BOQ CSI format**



### **Real time progress tool**





## PROJECT MANAGEMENT



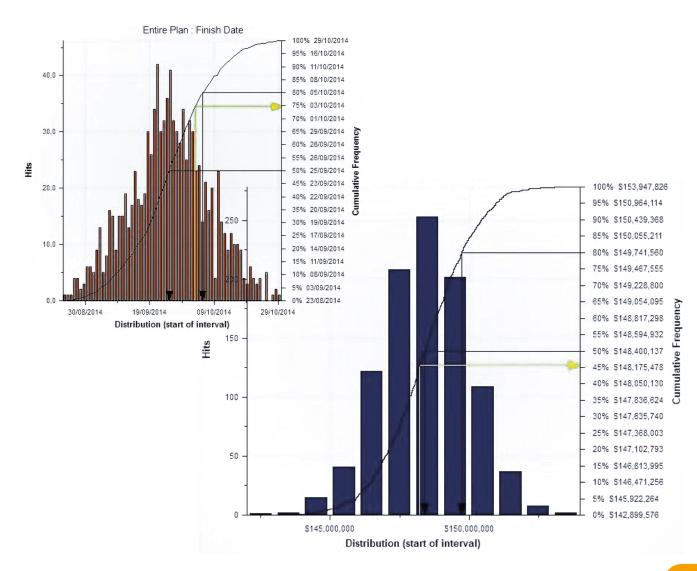
### **RISK ANALYSIS**

We Identify The Hazards In Order To Have Clear Vision To Decide What Are The Impact And Likelihood Of Each Risk. Risks Have To Be Evaluated To Decide The Precautions. Risk Management Plan Has To Be Prepared To Monitor And Control Risks.

Project Manager Leads Meetings With The Team To Update Risks Probabilities And Impacts.

Risk Management Software Programs Can Be Used To Calculate The Probabilities Of Completing The Projects At Certain Times Or Certain Budget.

Other Programs Could Be Used To Monitor The Risks And Calculate The Expected Monetary Value That Help Top Management In Getting Prepared In Case Risks Take Place.

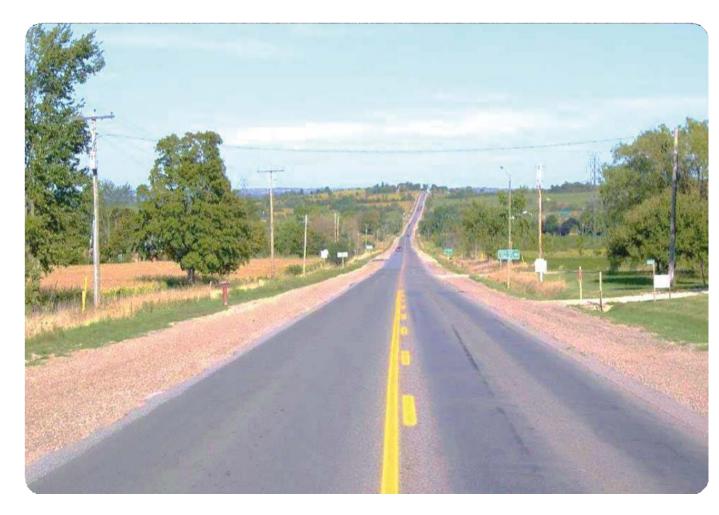






### 6th LINE HIGHWAY WIDENING

OAKVILLE, CANADA



Client: Primrose

Area : Not Applicable

Scope: Cost & Time Claim for Highway

Road

Year : 2021

## **NUCLEAR PLANT REFURBISHMENT**

ONTARIO, CANADA



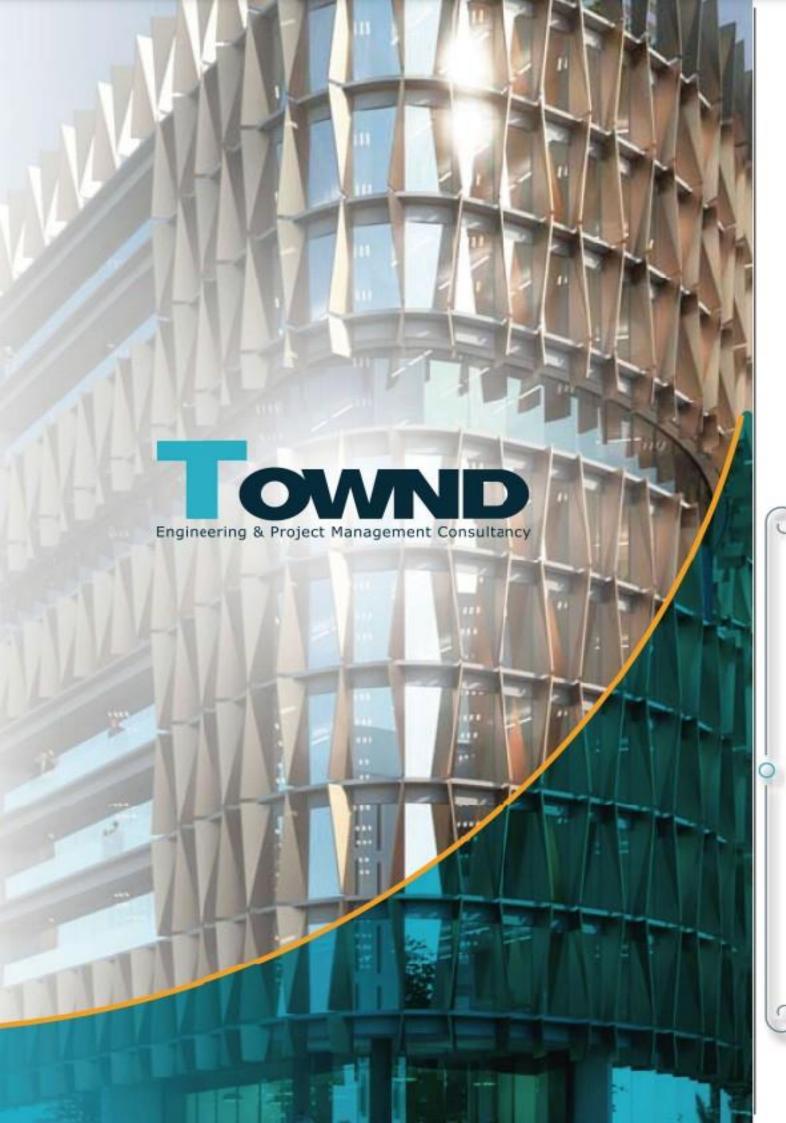
Client: NSI

Area : Not Applicable

Scope: PM Services For Station Facilities

of 2 Units In a Nuclear Plant Refurbishment Project

Year : Ongoing





### Toronto, Canada

### Master VDC

A Canadian Engineering and Project Management incorporation

Authorized by Professional Engineers, Ontario to provide Engineering and design services

Licensed by TOWND in North America



