2024/2Q



UNCANNY GROUP









**Uncanny For Metal Design Ltd.** 

Then due to Corona Pandemic,

unfortunately the company was

shutdown.





Then due to Corona Pandemic,

unfortunately the company was frozen &

may reopen.

finding strategic partner we started in

İstanbul – Turkey under:

**Uncanny Ltd. (Uncanny Group)** 





# "Directors"



Eng. Tayseer Alfalah /CEO



Prof. Mohammed Othman /CTO







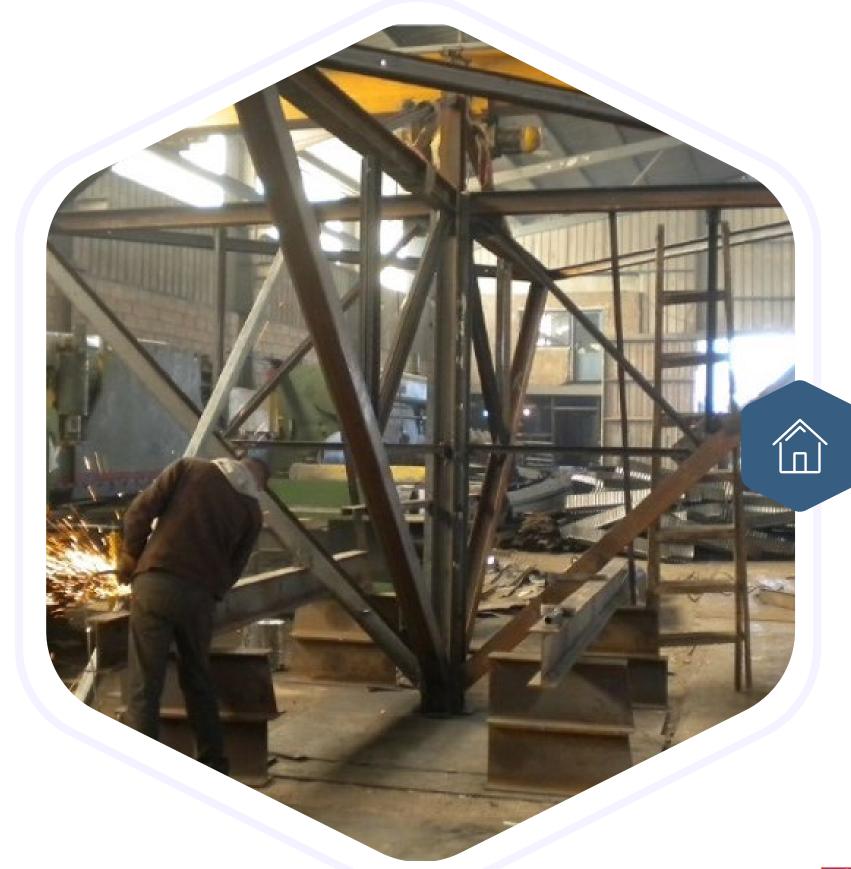
## About Us

The founders of Uncanny have over 35 years of combined engineering experience in the fields of metal design R&D and Business Consultancy. Furthermore, Providing engineering Consultation in earthquake-resistant structures, and offshore platforms.

For Uncanny's RibuDe building system, protection is provided by patents and other intellectual property laws. RibuDe is a Seismic Truss patent invention stand for "Rigid Building Design".

RibuDe has been developed to replace the frame structures by 3D-space truss. It went through few stages of development and now we are in the 5<sup>th</sup> stage achieving the Lego Concept (plug and play).

RibuDe is now more than a building system it is a new state-of-the-art Unique Seismic concept, whereas its has multi applications such as: residential, commercial, industrial, high-rise & more.







100%

Equal Opportunity to conventional building system & More...



**Equal Opportunity** RibuDe is a high natural frequency building structure with different level of rigidity, which allows buildings to withstand earth movements, winds and storms impact forces. It can be typically used in: Residential, commercial, Industrial, Costal, Seismic Platforms, Refugee Camps, Urgent residential needs and emergency evacuations shelters during natural disaster, and other wide-range of applications. RibuDe building system is suitable for Both high-rise and low-rise buildings.

RibuDe is designed to be the new generation of the conventional construction system, by utilizing modern geometrical science and material technology to enhance the aspects of traditional building system such as rigidity and construction cost & time.

The structure of RibuDe building system is very similar to a human skeleton, in that aspect it's rigid and standard building units can be joined together using flexible joints to allow buildings to withstand impact forces and seismic energy dissipation efficiently. It provides a unique architectural style that can satisfy most requirements of different architecture schools; specifically, it could highlight three-dimensional Islamic architecture in an easy and distinctive style that commensurate with the Eastern customs and traditions.



## Vision

The Preferred

Global Seismic Building System

for most applications as a one stop shop

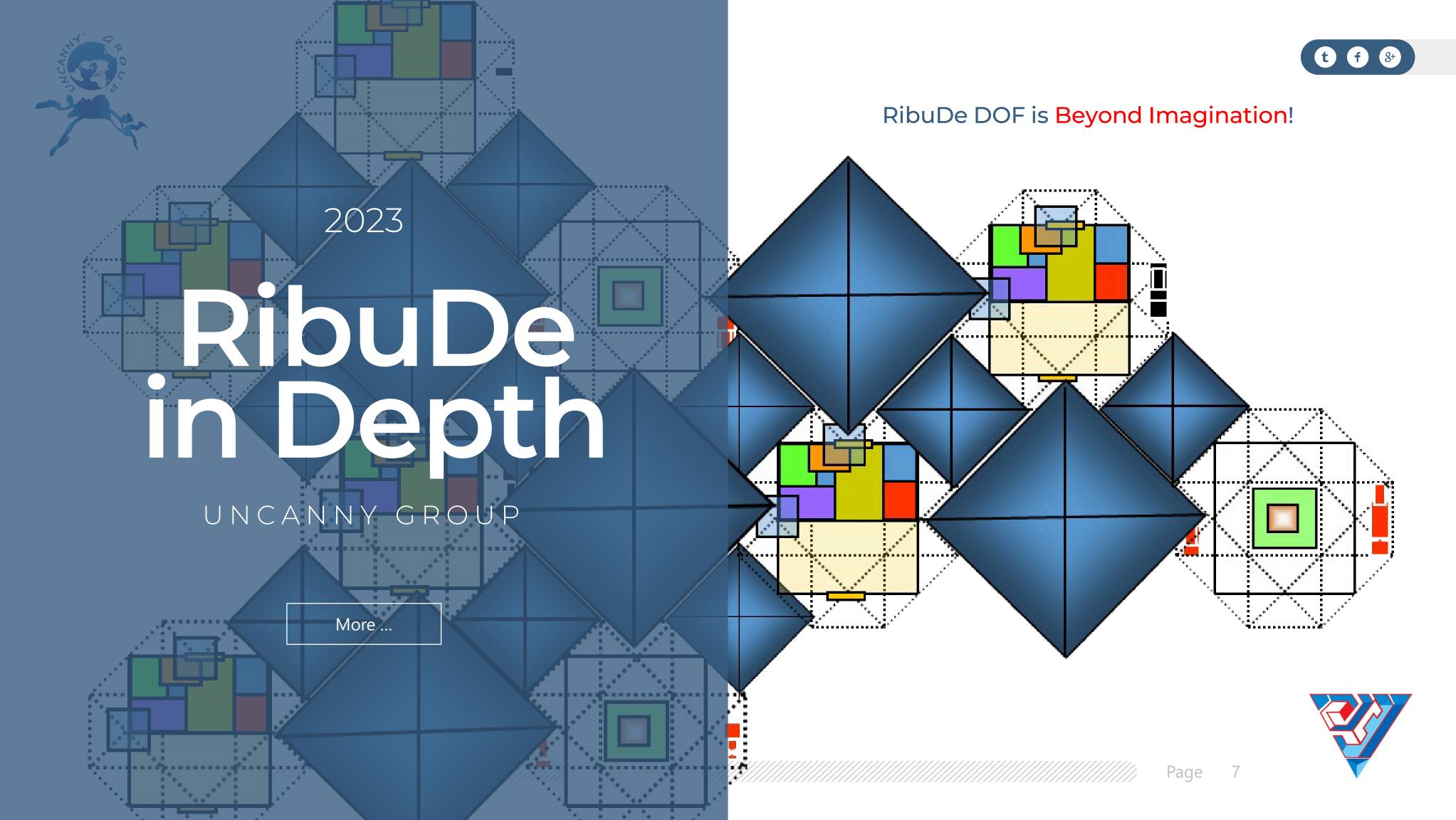
## Mission

Build excellence and Deliver Standard to ensure customer satisfaction.

Continually focus on research and development to improve RibuDe in all aspects reaching on-shelf product concept.

More ...











**RIBUDE** 





# Long Journey of Development...

We developed a new patent Seismic Building system. Named Rigid Building Design (RibuDe), and we achieved the "Lego Concept/ plug & play" with standard structure, it's now more than a building system it is a new state-of-the-art Unique Building Seismic concept.

- Started in Amman-Jordan Since, 2010





**Applying the latest theories** of the modern iron industry in science and innovation, while solving all technical problems that make it easy to install and resist earthquakes and dynamic forces.



## Models Development 02

Many Models were made A wide range of architectural designs for many applications.. Taking into consideration: Great efficiency, applicable & feasible and more...



## RibuDe Development 03

**RibuDe's Generations Development**we built few pilot projects whereas, pilot projects were built using camp structure, first generation, second, third & fourth structure of Our Seismic Building system.



## Continuous Development 04

Non-Stop development achieved the "Lego Concept/ plug & play" with standard structure, it is state-of-the-art Unique Building Seismic concept.



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# The main advantages of this system are:

# Foreseeing Future Trend

## Lego Concept

## "Plug & Play"

Our Seismic Building system leverage the housing construction needs to quickly gain market share since it is patent as a unique system, convenient and based on seismicity, cost competitive, providing true performance, time saving, and mass production capability. It combines standard technology with a deep understanding of seismicity that differentiates it among normal Prefab/Precast existing building systems.

#### Patent:

intellectual property legislation safeguard.

Uncanny building system (RibuDe) is protected by patents and intellectual property laws...









# RibuDe Competitive Advantages

Patent: 01

state-of-the-art Unique Patent, with continued development and upcoming new patents..

DOF: 02

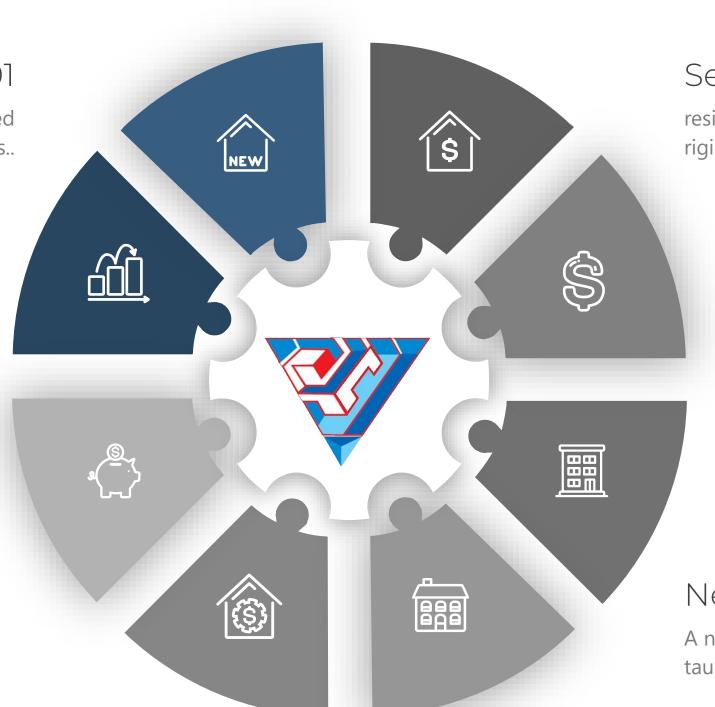
Standard Building System with High architectural degree of freedom.

Fast to build: 03

Time saving = at least (50%) less than traditional Building system for mass production.

Environmentally friendly: 07

Easily reuse (dismantled), No need for expensive seismic components & Less foundation bases.



Seismic Structure: 08

resistivity to earthquakes above 90 Richter & high rigidity withstand earth movements.

Less Cost 04

cost reduction at least (20-30%) less than traditional Building system.

Multi-applications: 06

start from refuge shelter to high rise buildings; Residential, Industrial, Costal, military etc.

New engineering field: 05

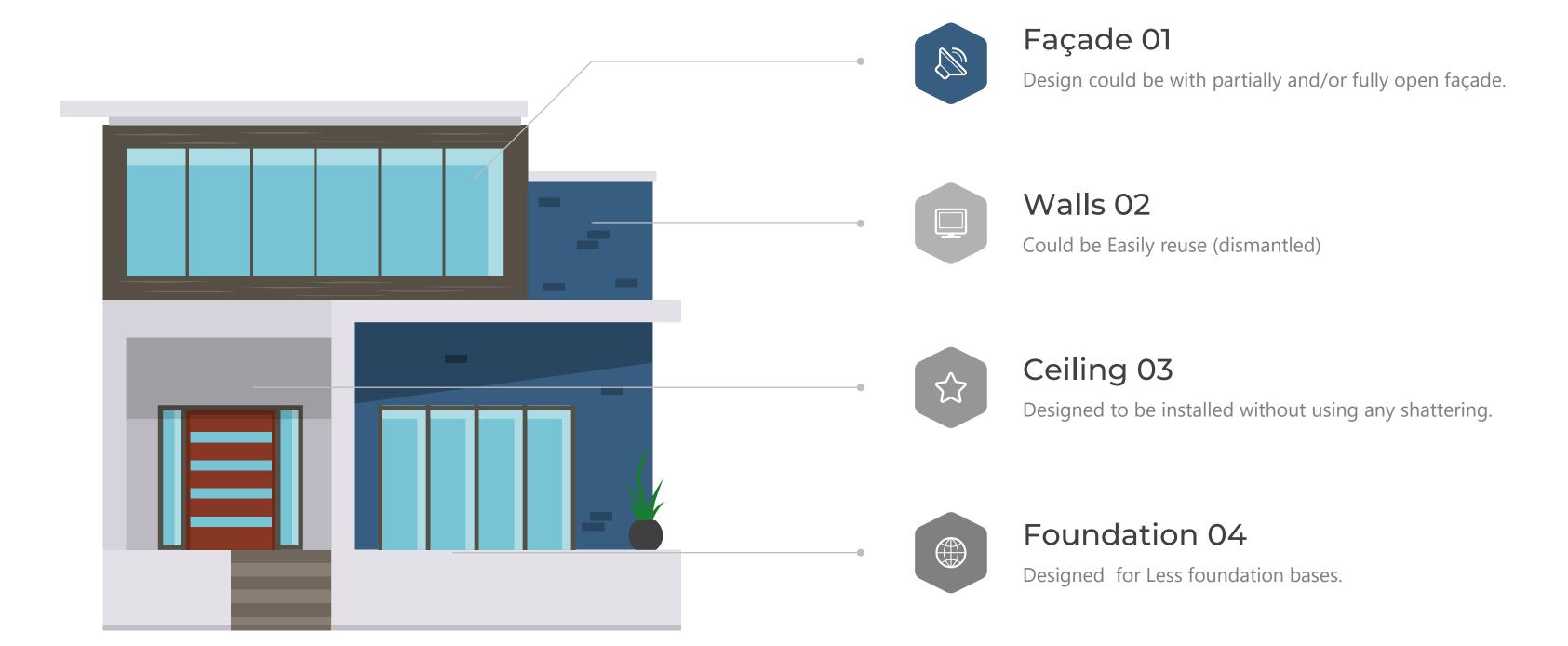
A novel curriculum in engineering subjects will be taught in universities.







# RibuDe Flexibility & Simplicity









# Overcoming Constraints

## Achieving & More...

Allow buildings to withstand earth movements, winds and storms impact forces.

The system can be easily erected and quickly combined to allow better horizontal and vertical emergency expansion.



Saving more than 50% of the time required for building construction Along with the simplicity of manufacture



Saving cost 20–30% In the case of mass manufacturing, of the overall f traditional building, and will likely exceed that in the case of automation of mass production.



RibuDe adapts quality standards. Whereas, for cladding it can use many alternatives that meets international codes & standards.



RibuDe was developed with built in earthquakeresistant, as its great ability to resist earthquakes of more than 9 Richter degrees.



Cost 02

Quality 03

Seismicity 04

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# Types of RibuDe Structure



## a) Large Scale Structure:

it is designed for big building with big Span\height such as malls with fully open façade..

1st Generation



## b) Medium Scale Structure:

it is designed for medium building
Span\height such as multi stories\high rise
with partially open, as well to redistribute
the load on the structure..

2<sup>nd</sup> Generation



it is designed for major residential buildings. Standard panels & slabs. with lowest cost, and easier to transport, and to handle.

Trendy Structure

5<sup>th</sup> Generation



## c) Lego Concept Structure:

it is designed with standard identical pieces while structure is embedded inside the walls and roof. Also, it could be used for multi story building as well as for refugee camps and other applications indeed.

3<sup>rd</sup> & 4<sup>th</sup> Generations









## RibuDe Revenue Channels

## Execute Projects 01

Acquiring & executing projects, using RibuDe systems.



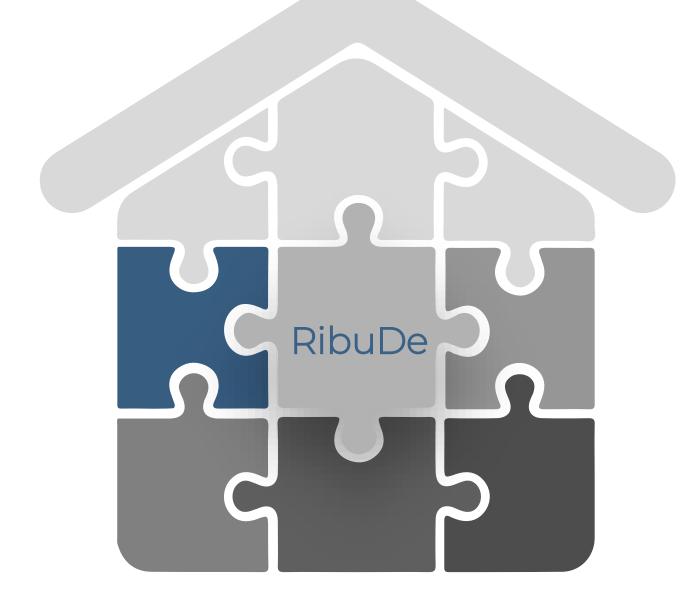
## **Certified Contractors 02**

Full support will be provided to build/erect RibuDe on site, in exchange for a loyalty charge per square meter as a sustainable source of income.



## Certified Manufactures 03

Full support will be provided to manufacture RibuDe in exchange for a loyalty charge per square meter as a sustainable source of income.



## **Microsoft Methodology Adaptation:**

**Everyone participates in** 

Global Open Seismic Structure Code (GOSSC)



## Certified Consultants 04

Full support will be provided to offer consulting engineering services in exchange for a loyalty charge per square meter as a sustainable source of income.



## Selling RibuDe Plant 05

Starting with manufacturing and adapting optimal production lines, Then start selling Semi/Fully automated plants that produce RibuDe System.



## A novel Eng. Curriculum 06

A novel Eng. Curriculum of engineering seismicity to be acknowledged and taught in universities under our supervision.



2010

# Models Development

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More ...







## 3<sup>rd</sup> & 4<sup>th</sup> Generation Models

Models were built that Suitable for residential and multi-story buildings.

## <sup>2nd</sup> Generation Model

Models were built that suitable for buildings that resistant to earthquakes, Buildings such as mosques and commercial centers with big span.





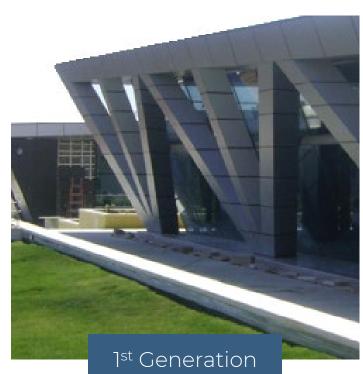








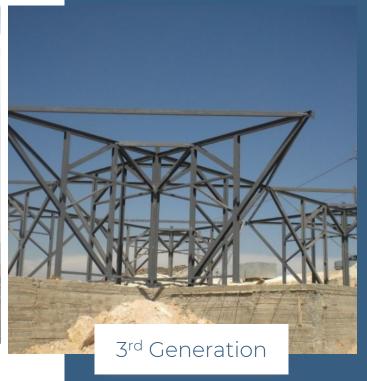
# RibuDe Generations Development



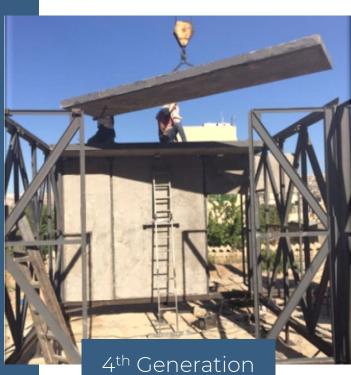


## Generations History

**Many years of Developments** Starting with first generation and recently we will initiate a Pilot Project using our hybrid plug & play structure, whereas pilot projects were built before using first, second, third, camp structure, and 4<sup>th</sup> generation of Our Seismic Building system (RibuDe).







Seismic but appearance looks like traditional buildings structure & more....













## 1st Generation

**Unique Approach** There are primarily two types of steel buildings. Knowing that the first is a frame-steel structure and the second is a light-steel structure, each of which has flaws and only a few uses. Our building concept was introduced as a space truss with new technology. While avoiding the flaws and maximizing benefits by utilizing the most recent discoveries of modern iron manufacturing theories of science and innovation.













## 2<sup>nd</sup> Generation

## 2014 – Exciting Experience

**Turning Point:** the real starting point was constructed as planned. it is designed for big building with big Span\height such as malls with fully open façade buildings.











## Mosque Pilot

### **Challenges find a way:**

It combines standard technology with a deep understanding of seismicity that differentiates it among normal Prefab/Precast existing building systems.

And More...









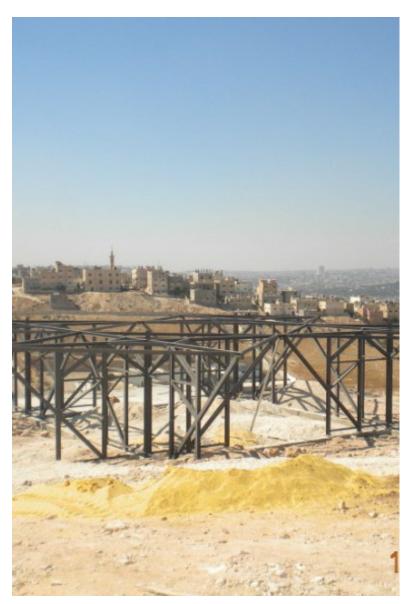
## 3<sup>rd</sup> Generation

## One Family House

Accepting The Challenges plurality of standard singular types & standard dimensions. Furthermore, No column outside, easy to transport, to handle, to erect. Also, with NO bulky foundation but very simple infra structure.

## Used for Residential

Amman – Jordan 2016













# 4<sup>th</sup> Generation

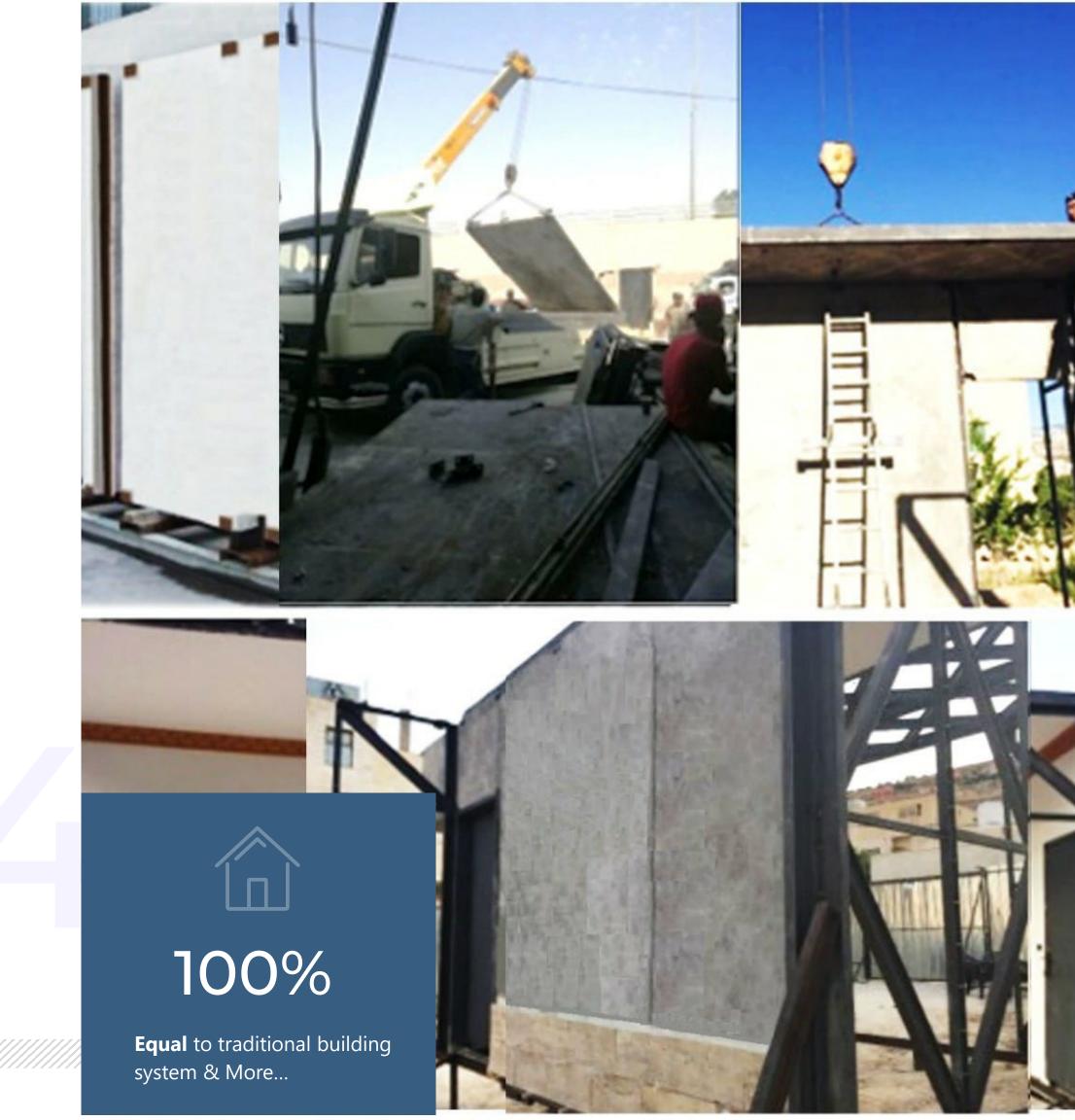
# Lego Concept

Standard Panels (for Wall & ceiling)

## 2018 – Accumulative Experience

**Equal to traditional building:** RibuDe is designed to be the new generation of the conventional construction system by utilizing a modern geometrical science and enhancing the aspects of traditional construction system, rigid and standard building structure (just like in a human skeleton).

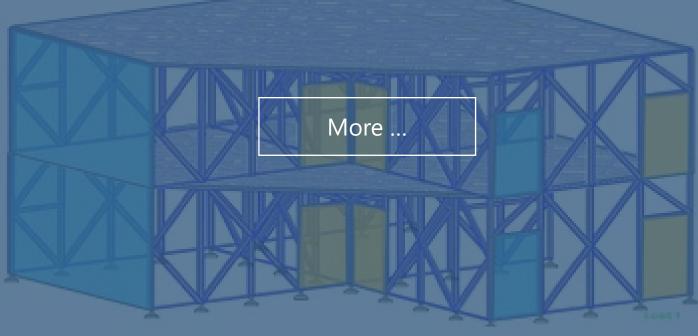
A wide range of architectural designs...Great efficiency in resisting earthquakes.... Easily reuse.... Suitable for water and multi-story buildings. The latest generation uses Light Guage Steel Structural (LGS) to increase saving cost and make it very competitive.

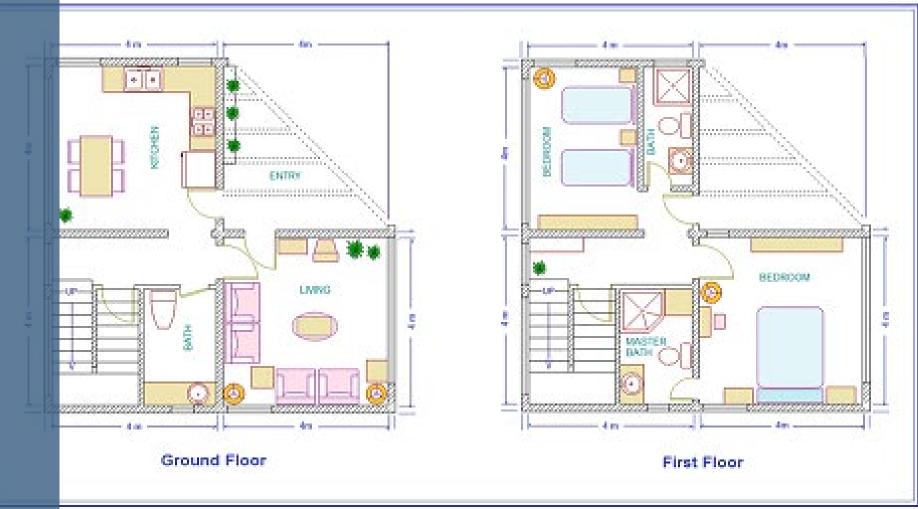






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## 5<sup>th</sup> Generation

## Lego Concept

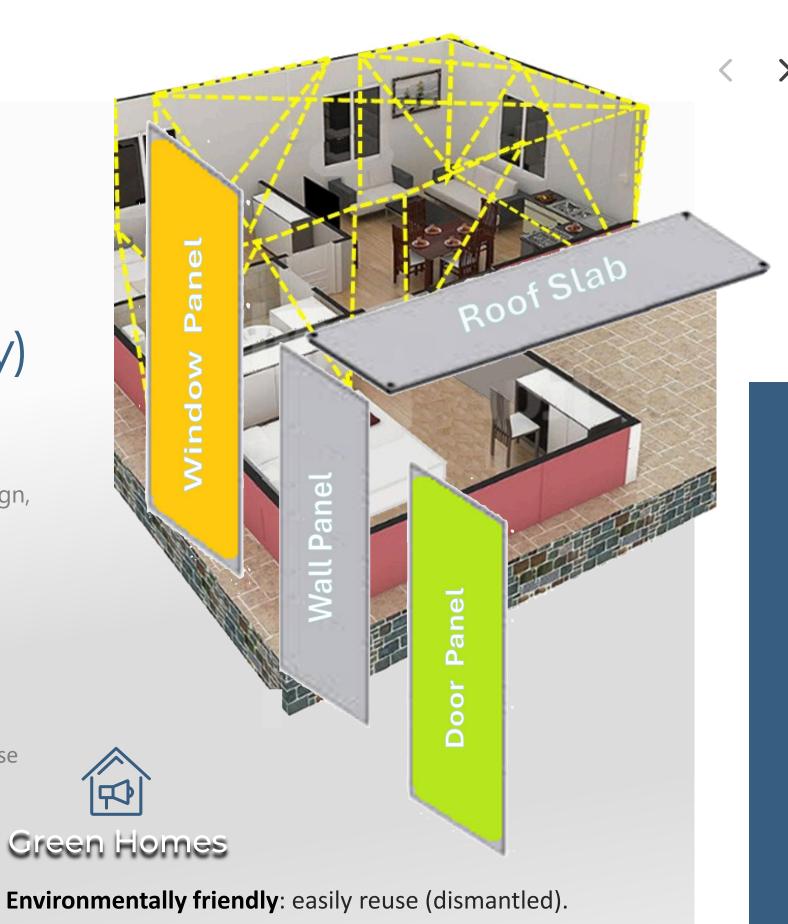
## 4 Standard Panels (Plug & Play)

### Green Homes

Our fifth generation "Plug & Play structure" has a strong structural design, fully rigid, with single wall panel, single roof slab and single panels for windows & doors.

It can be introduced as Prefab/Precast, therefore it is the best seismic structure, achieving state-of-the-art system with plurality of standard singular types & standard dimensions.

Note: Light Guage Steel Structural (LGS) is used for the Hybrid type to decrease cost even more and make it very competitive.



Wall Panel 1

Standard single wall panel

Window Panel 2

Standard single window panel

Door Panel 3

Standard single door panel

Roof Slap 4

Standard single roof panel





# 5<sup>th</sup> Generation



# Turn-Key Projects

## Super Deluxe Finishing 1

We deliver a turn-key project with Super Deluxe Finishing

## Deluxe Finishing 2

We deliver a turn-key project with Deluxe Finishing

#### Wall Panels

Panels can be combined with 2<sup>nd</sup> Generation

## Roof Slap 4

Standard single roof panel









# Camp Structure

#### Phase One

Manufacturing all panels and slaps are prepared in factory.
Camp Type structure is a modified structure of "RibuDe" used only for camps to fit the requirements of the proposed shelter in order to lower the cost.

#### 2017 - Manufacturing



#### Phase Two

**Ready One Site** Modified camp structure (MCS) is dedicated to Camps construction and shelters.

#### 2017 - On Site



### Phase Three

**Erecting:** unified building system consisting of standard structural elements (walls and slabs) when assembled, producing a solid and integrated building system.

#### 2017 - Erecting



#### Phase Four

**Finishing:** The structure is designed so that its components can be produced quickly with the ability to dismantled and maintain cost reduction.

#### 2017 - Finishing







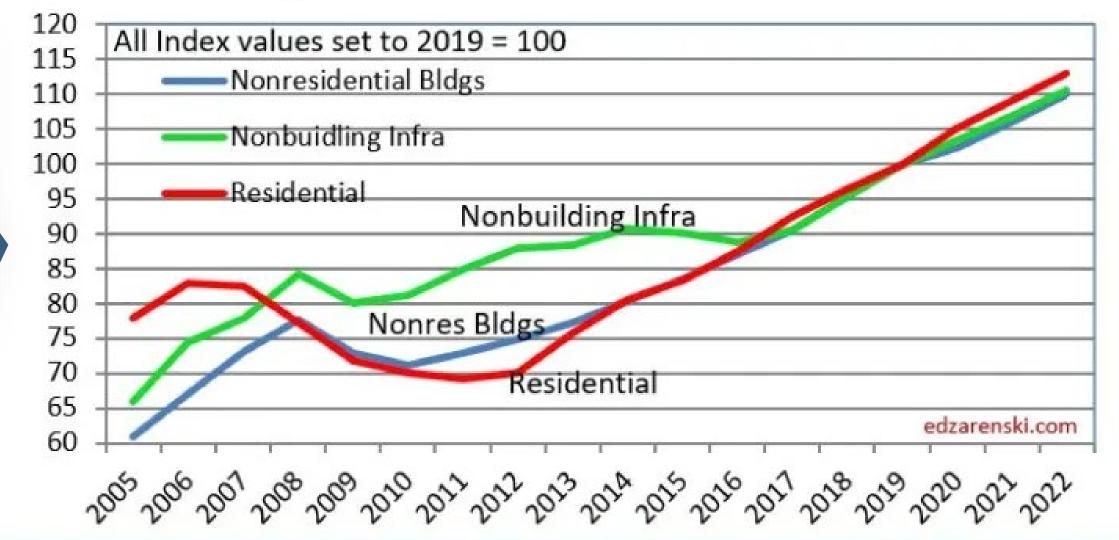


# Building Cost Index

## Construction Inflation

Research indicates that the continual rise in building construction prices is driving up the demand for low-cost building solutions such as our RibuDe system.

# Construction Analytics Building Cost Index - Construction Inflation







# Features Comparison

## Features Comparison

Between RibuDe & other Building
Systems

# Small Thing Makes Deference!

\*This estimated comparisons was made based on Jordanian market.

More ...

No.	Item/Feature	Concrete Structure	Steel Structure	RibuDe
1	Durability	The concrete structure is more durable	The durability of the steel structure is adversely affected by weather conditions and corrosion.	Very durable
2	Earthquake resistance	Concrete is brittle, so it is less resistant to earthquakes	A steel structure can withstand earthquakes more effectively than a concrete structure.	More resistant to earthquakes greater than 9 degrees Richter
3	Loading capacity	Compared with steel, the bearing capacity of concrete is low	The bearing capacity of the steel structure is good	The bearing capacity of the steel structure is good
4	Scrap value	The scrap value of concrete is nil.	Good scrap steel value.	Environmentally friendly, qualified and reusable
5	Self weight	The self weight of concrete is more than average	Steel is 60% lighter than concrete.	Lighter than both, especially for the fourth generation, using light steel
6	Foundations	The foundation of the concrete structure must be strong due to the greater weight of the concrete	The steel structure can be made without a foundation.	The steel structure can be made without a foundation or simple one.
7	Construction duration	A concrete structure generally needs 28 days before it is ready for use and is slower to build.	The steel structure is quick to build and can be used shortly after completion.	The construction period is short and everyone is quick to build (the Lego concept)
8	Employment	It requires less skilled labor	Requires more skilled labor	Little labor and supervision
9	Approximate Cost	Construction cost is average.	Construction cost is more than concrete	the least
10	Joints	Joints such as masonry joint, expansion joint, contraction joint, etc. are needed in the concrete structure	The steel component is joined using rivets, welding, nuts, bolts, etc. to the steel structure.	The steel component is joined using rivets, welding, nuts, bolts, etc. to the steel structure.







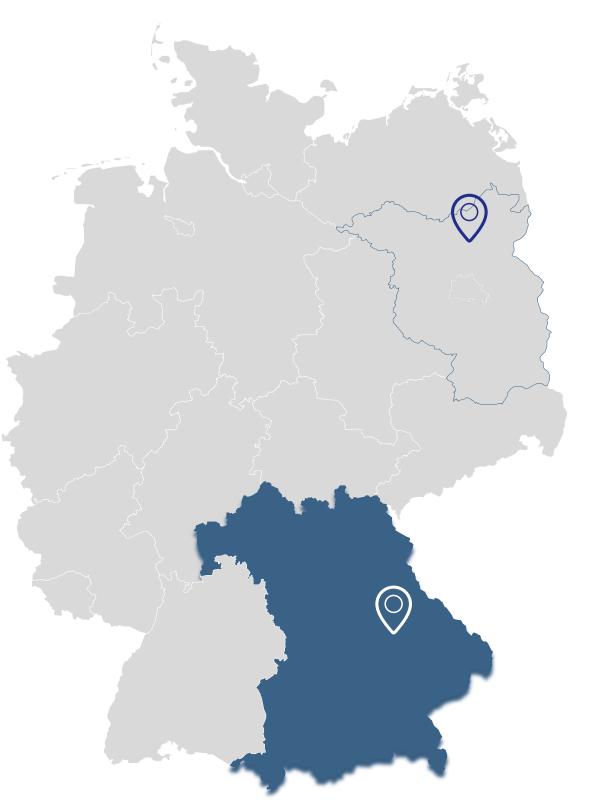


## Germany as a Future Partner



#### For Mass Production & Automation

Signed MOU with German Co. Furthermore, Founders were in contact with German company before Corona pandemic for Our Mass Production support at later stage.



### **Production Automation**

1st Phase planning to have RibuDe production line tagged with "Made in Germany"

More ...

## Plant Building

**2<sup>nd</sup> Phase** then for later stage as per our business plan, we will build RibuDe plant with German touch.

More ...

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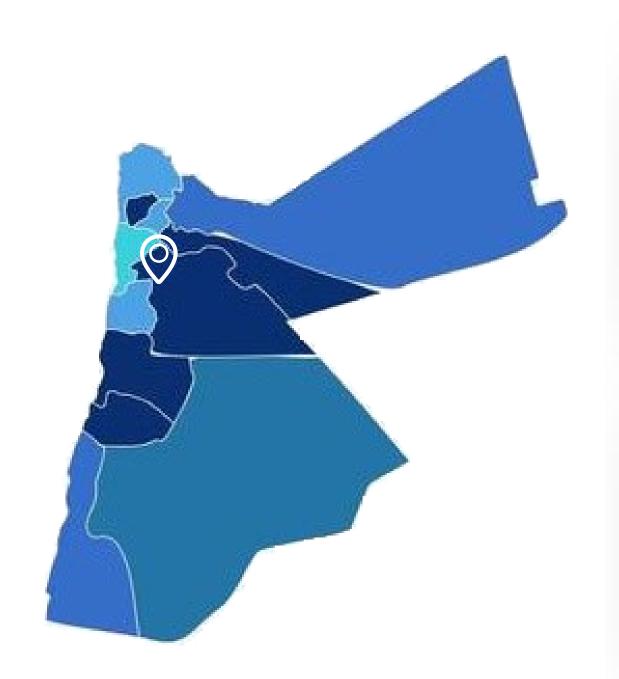
## Uncanny Group Certified Partner - SAC





## Steel Manufacturing & Contracting Certified Partner

**SAC Contracting L.L.C.** was founded in Jordan in response to market need for a contracting company that provides high-end commercial and industrial services.



### Manufacturing

**1st Phase** Manufacturing RibuDe SMART Light Gage Steel & Hot Rolled Steel production in Jordan for RibuDe Projects.

More ...

## Contracting

**2<sup>nd</sup> Phase erect &** build RibuDe SMART Light Gage Steel Hot Rolled Steel projects as a turn-key projects.

More ...





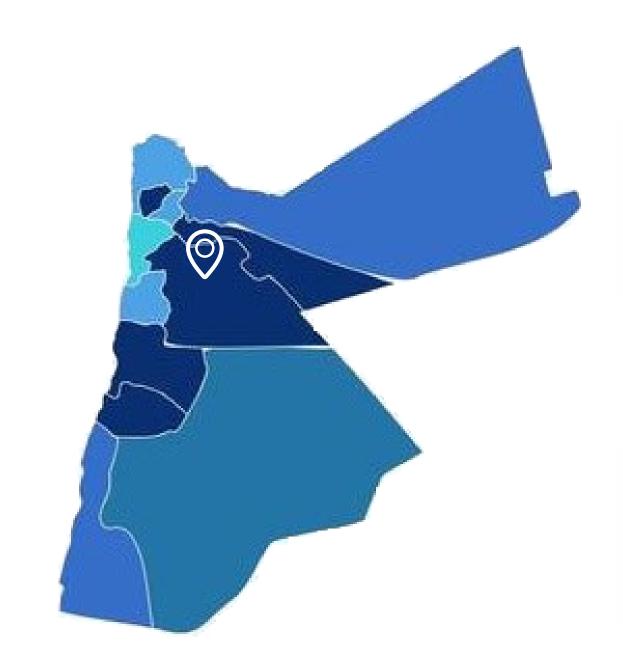
## Uncanny Group Certified Partner - ASAS





## Certified Precast Plant for Production & Erection

Assas is your one-stop solution for all concrete based products, In 1998, Assas started as a subsidiary of RMCCS, however, due to high demand for its products, Assas became an independent entity in 2007 responsible for the production of concrete based products.



### Manufacturing

**1st Phase** Manufacturing RibuDe SMART Precast production in Jordan for RibuDe Projects.

More ...

## Contracting

**2<sup>nd</sup> Phase erect &** build RibuDe SMART Precast projects as a turn-key projects.

More ...

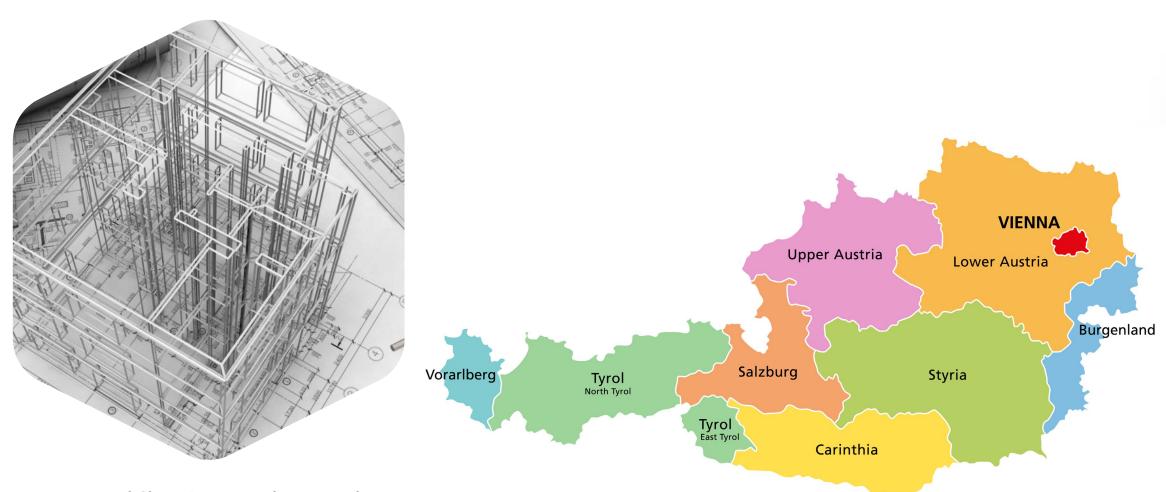






## Uncanny Group Certified Partner - IMRAN





### **Certified Engineering** Consultant for Designing & Supervision

Imran Holding is an international civil engineering firm based in Vienna. With our team of highly qualified civil engineers, we can demonstrate many years of project experience in all fields of civil engineering - from preliminary construction planning to construction management during implementation, to supplementary work and defect management after completion.

## Designing

1st Phase Designing SMART RibuDe systems in Austria & Saudi for RibuDe Projects.

More ...

## Supervision

**2<sup>nd</sup> Phase Supervision** SMART RibuDe projects in Austria & Saudi.

More ...

UNCANNY GROUP 40 A track record of professionality

## Manufacturing Capabilities

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More ...









## Pinnacle X8 LGS Production Line

Cold forming of metal sheets into C-sections of size 75.00-250.00mm and thicknesses 0.70-2.00mm Production of structures for buildings up to 5 floors in size. Production of a wide range of bearing and non-bearing walls

LGS - Production Line



#### **Knudson LGS Machine**

Cold forming 1of metal sheets into C-sections of size 70.00-200.00mm Metal sheets thicknesses. up to 2.00mm.

LGS - Cold forming



#### Wide Slitting Line

Slitting coils of thicknesses 0.30–3.00mm into various widths
Original coil width up to 1.50m

LGS – Wide Slitting Line



#### Narrow Slitting line

Slitting coils of thicknesses 0.40-6.00mm into various widths
Original coil width up to 0.40m

LGS – Narrow Slitting Line











## FICEP Automatic CNC Drilling & Sawing Line

Cuts and drills hot-rolled sections such as HEA and IPE beams
Operatable in 3 axes with a working width up to 1.00m and length up to 18.00m

Auto CNC - Drilling & Sawing



### Built-Up Sections Assembling & Welding Machine

Assembles steel members with widths up to 2.50m and thicknesses up to 25.00mm
Premium Lincoln DC-1000
Submerged Arc Welding Machine

Welding: Assembling & Welding



### Standing Seam Metal Sheets Rolling Machine

Rolls sheets that can be fixed in place by zipping instead of using self-drill screws Mobilizable to sites where it rolls sheets to unlimited lengths and widths up to 400.00mm Original metal coil width is 570.00mm with thicknesses up to 1.00mm

Rolling – Sheets Rolling Machine



### Discontinuous Polyurethane Sandwich Panel Line

Produces 1.00m wide sandwich panels with side and roof profiles up to 12.00m in length. Sandwich panels core thickness up to 100.00mm and sheet thickness up to 0.60mm

Panel - Sandwich Panel Line











#### C-Z Purlins Rolling Line

**Cold forming of metal sheets into C** and Z-sections of size 80.00-300.00mm Metal sheets thickness range: 1.00-3.00mm

Forming –Cold forming



#### **Z-Purlins Rolling Line**

**Cold forming of metal sheets** into Z-sections of size 100.00-300.00mm **Metal sheets thickness range:** 1.50-3.00mm

Forming –Cold forming



#### Decking Sheets Roll Forming Machine

**Cold forming of decking sheets of** width 720.00mm Original coil width is 1000.00mm Thickness range 0.50-1.30mm

Forming –Cold forming



### **Corrugated Sheets** Roll-Forming Machine

**Cold forming of 6-rib corrugated** sheets of width 1.00m **Original coil width is 1.25m** Coil thickness range: 0.30mm-0.70mm

Forming –Cold forming











## CNC Plasma and Oxygen cutting and drilling

Working area: 2.50m width \* 12.00m length Sheets thickness

range: 6.00-100.00mm

CNC - Cutting & Drilling



## CNC Plasma Cutting Machine

CNC Plasma cutting of metal sheets of sizes up to 2.00m\*6.00m Metal sheet thicknesses up to 20.00mm

CNC - Plasma Cutting



### Flatbed Laser CNC Cutting/Engraving Machine

Laser Power 3kW Working area 1,500.00\*6,000.00mm

Cutting - Laser Cutting



### Trumpf Trumatic 2020R Punching Machine

Punching machine with a punching force of 200.00kN
Working area 2500.00\*1250.00mm
Maximum sheet thickness of 6.40mm and material weight of 150kg

Punching – Punching Machine









أساس 26226

#### **HOLLOW CORE PLANT**

Assas has a state of the art hollow core plant with a capacity of producing 400 m2 of slabs per 24 hours in different thickness ranging from 16 cm up to 50 cm.



## CONCRETE MASONRY UNITS (CMU)

Blocks, ribs, kerbstones and interlocking tiles. This production line includes, concrete blocks, ribs, kerbstones and interlocking tiles. They come in a diverse collection of textures, colors, shapes and sizes to meet our clients' needs.



#### PRECAST ELEMENTS

Assas's high-quality and diverse pre cast molds have catered for the majority of the Kingdom's largest construction projects including, septic tanks for waste water systems, military security barriers, solar power foundations, underground electrical chambers and manholes, and much more.



## POST TENSIONED CONCRETE

Post tension production plant was launched in 2011 as an essential division alongside the Hollowcore and CMU plants.



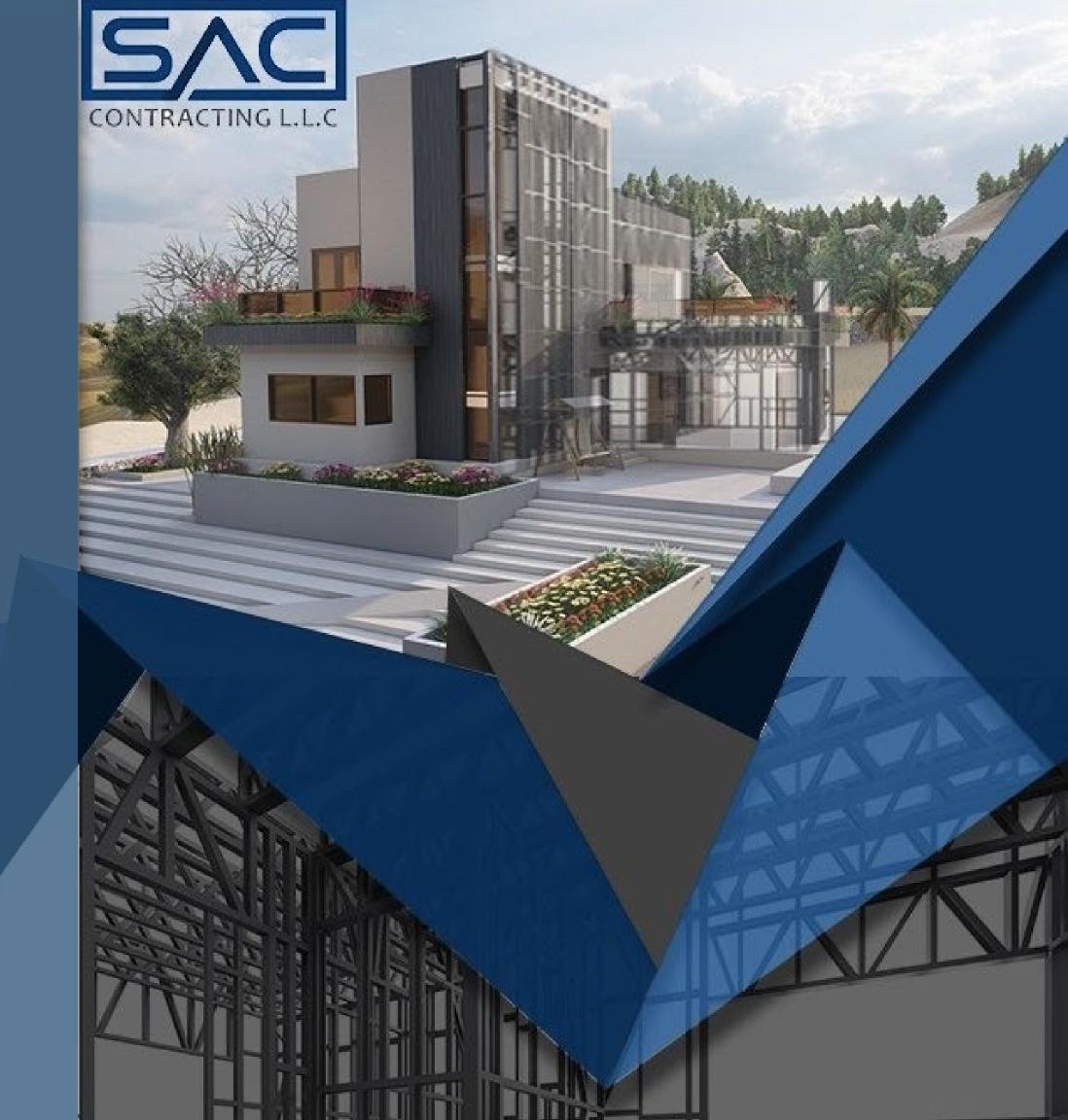


A track record of professionality

# Contracting Capabilities

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More ...









## Contracting Capabilities

Residential Project

**Client: Jad Villa** 

Area: 200m2 (Surface area)

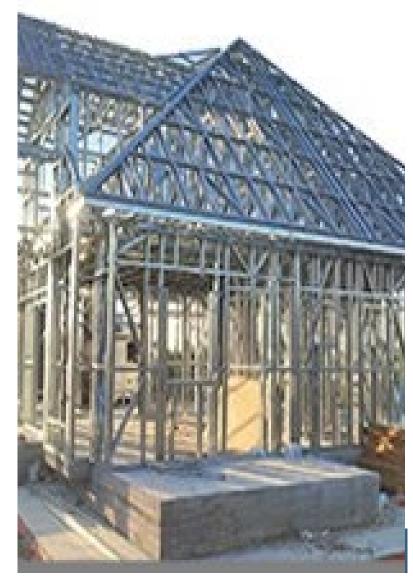
**Location: Irbid, Jordan Utilization: Residential** 

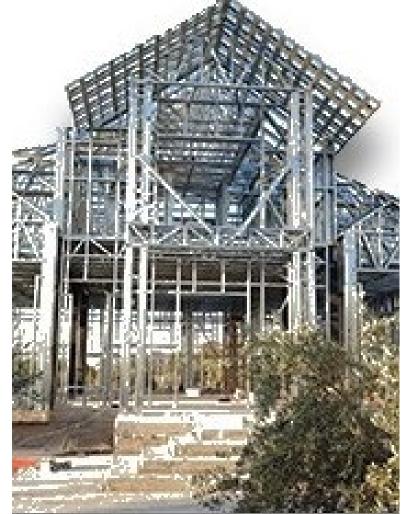
Scope: Design, detailing, fabrication, supply and Erection of steel structures + cladding Design

and execution of Civil works

## Residential/Villa Project

Irbid – Jordan - Light Steel















## Contracting Capabilities

Residential Project

**Client: Mr. Fadi Samarah** 

Area: 640 m2

**Location: Al-Ghor, Jordan Utilization: Residential** 

Scope: Design, detailing, fabrication, supply and Erection of steel structures + cladding Design

and execution of

**Civil works** 

## Residential/House Project

AI-Ghor – Jordan – Light Steel















## Contracting Capabilities

#### Momani Farmhouse Project

Client: Mr. Ahmad Al-Momani Location: Al-Alouk, Jordan Category: Light Gauge Steel

Scope: Design, detailing, fabrication, supply and

erection of steel structures

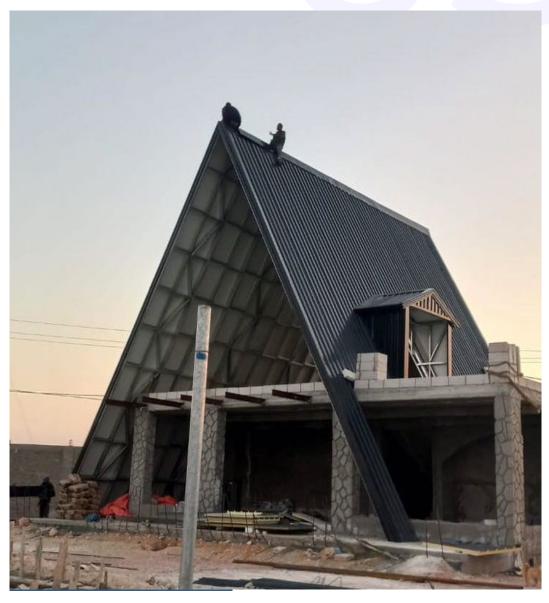
**Supply and installation of sandwich panels** 

**Area: 270m<sup>2</sup>** 

## Residential/Farmhouse Project

Al-Alouk – Jordan - Composite













## Contracting Capabilities

Al-Ram Tri Company Project

**Client: Al-Ram Tri Company** 

Area: 225m2

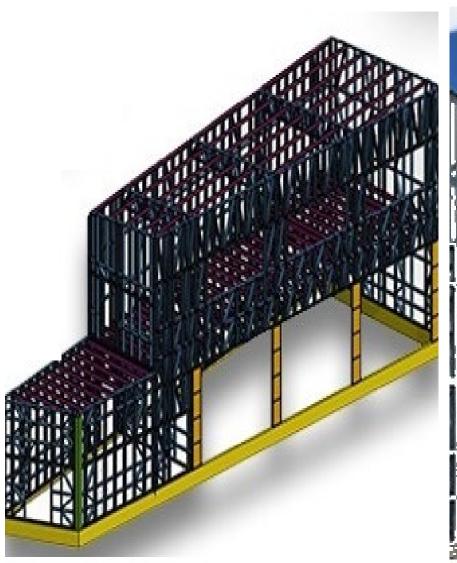
**Location: Al-Zarqa, Jordan Utilization: Commercial** 

Scope: Design, detailing, fabrication, supply and erection of steel structures Installation

of sandwich panels

## **Commercial Project**

AI-Zarqa – Jordan - Light Steel















## Contracting Capabilities

Triple Six Project

**Client: Dabash Engineering Group & Partner** 

**Location : Bal'ama, Jordan Category : Light Gauge Steel** 

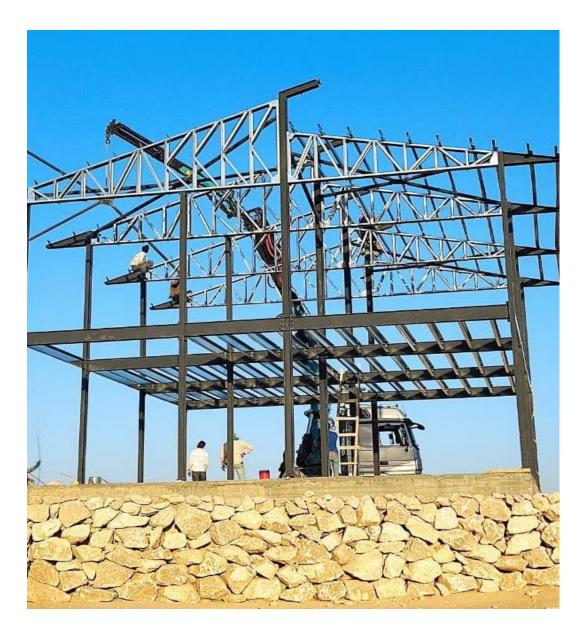
Scope: Design, detailing, fabrication, supply and

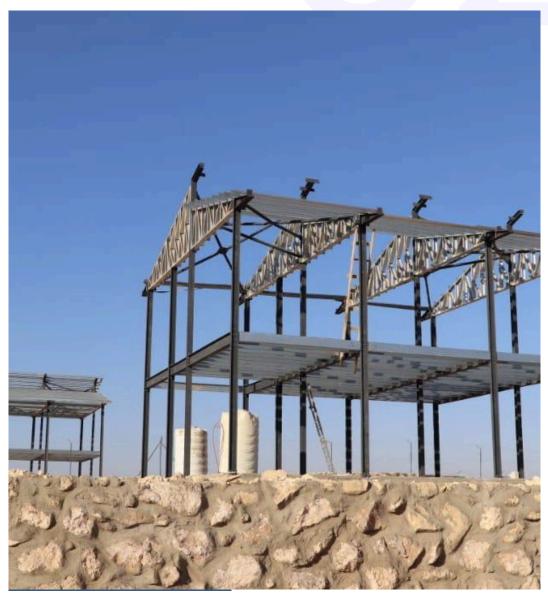
erection of steel structures for 4 houses

**Area: 860m<sup>2</sup>** 

## Commercial Project

**Bal'ama**– *Jordan - Composite* 













## Contracting Capabilities

Triple Seven Food Masters 1st Floor Project

Client: Mr. Hakam Al-Qudsi Location: Mecca Street, Jordan Category: Light Gauge Steel

Scope: Design, detailing, fabrication, supply and

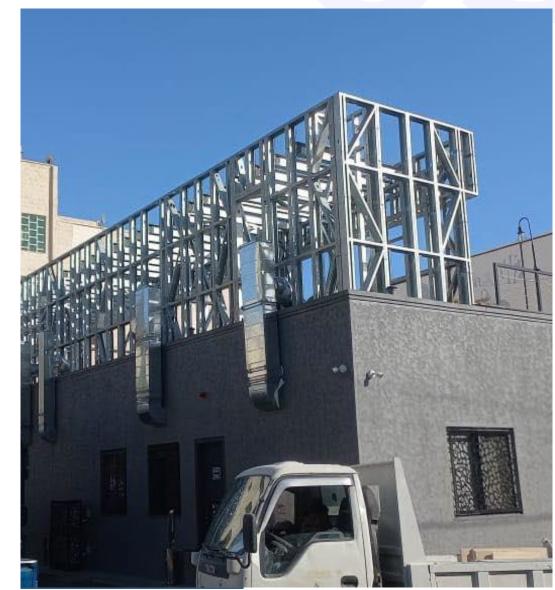
erection of steel structures

Area: 85m<sup>2</sup>

## **Commercial Project**

Amman – Jordan – Light Steel











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Uncanny Group

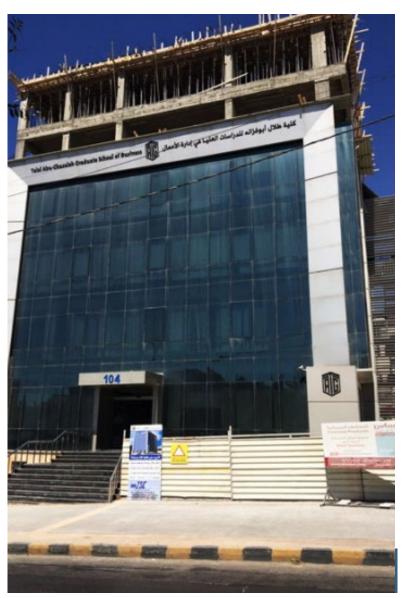
## Contracting Capabilities

#### **POST TENSIONED CONCRETE**

Talal Abughazaleh Collage
Pioneers Educational Schools
Faculty Of Law – Yarmouk University

## **Commercial Projects**

Amman – Jordan - Precast















## Contracting Capabilities

Arab Potash Company CCP-1 De-Dusting System Project

**Client: Scheuch GmbH** 

**Location : Ghawr Al-Safi, Jordan** 

**Category: Industrial** 

Scope: Detailing, fabrication, supply and erection of

+250Tons of steel structures, stairs, ladders,

handrails, walking platforms, galvanized gratings,

ducts and bolts.

Installation and insulation of Bag Filters, Cyclones,

Fans and other equipment.

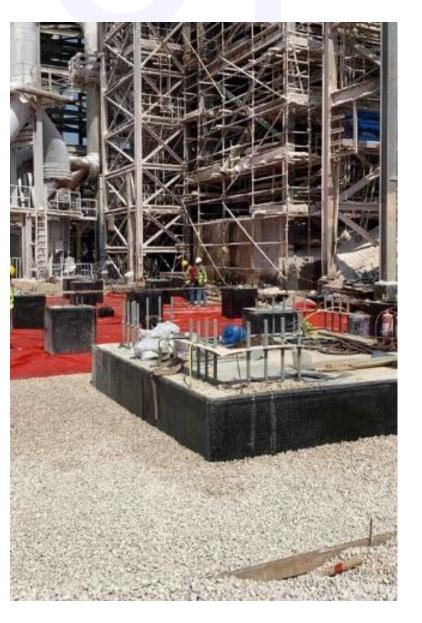
Civil, electromechanical and instrumentation works.

## **Heavy Industrial Project**

**Ghawr Al-Safi** – *Jordan - Composite* 















## Contracting Capabilities

APC Conveyor Belt 305H Project

**Client: Quarry Mining** 

**Location : Ghawr Al-Safi, Jordan** 

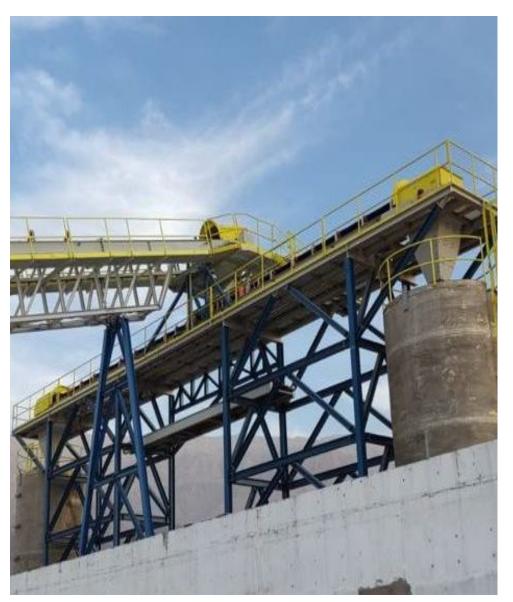
**Category : Industrial** 

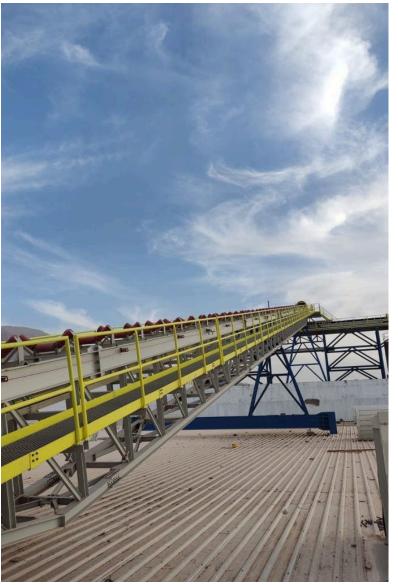
Scope: Detailing, fabrication and supply of 30Tons of steel structures, handrails, walking

platforms and bolts.

## Heavy Industrial Project

**Ghawr Al-Safi** – *Jordan - Composite* 











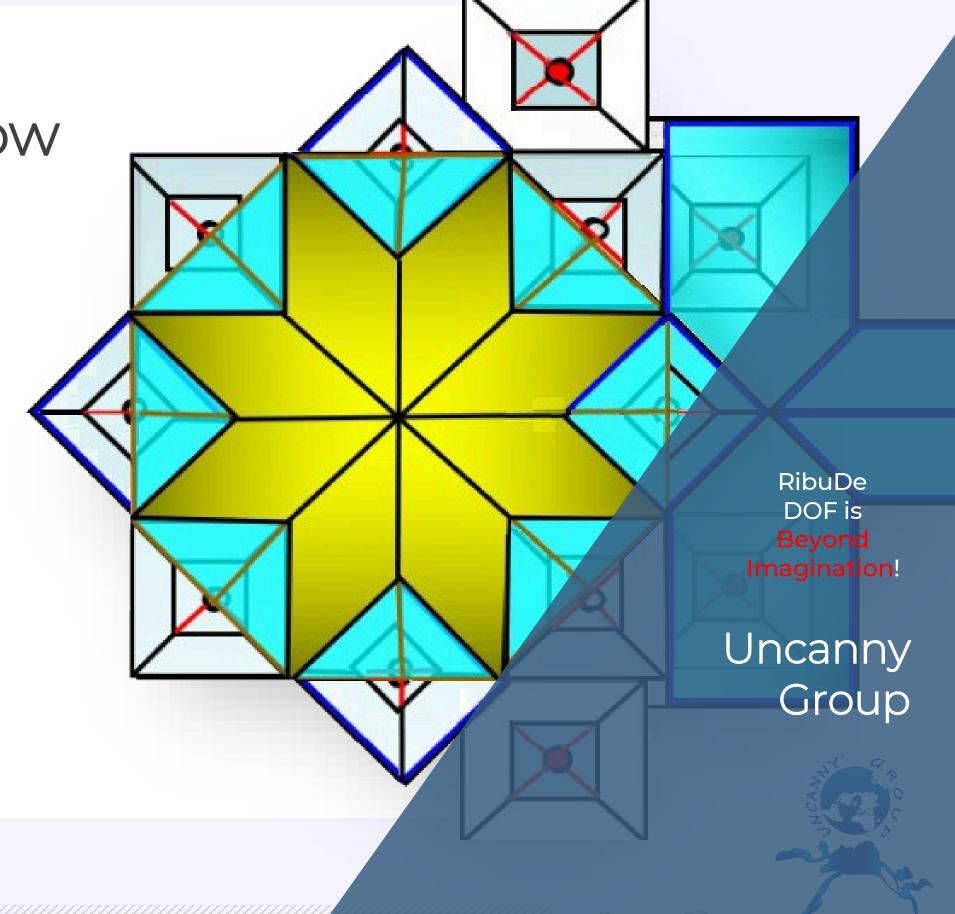
Constantly Seeking to Grow Via Win-Win Globally

**Reaching Out for Strategic Partners:** Preferred a Strategic Partner with a Long-standing experience in steel construction and/or construction.

Support manufacturing using hot rolled and/or light Steel Structure. Work together to acquire and execute projects with the optimal solutions that meet customer needs.

Then helping in obtaining & supporting projects that will subsequently be executed using RibuDe.

CEO - Building Trust
Then Business will follow & flow!



UNCANNY GROUP

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## THANKYOU

FOR WATCHING OUR COMPANY PROFILE

Uncanny Group

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