



# CTSR GROUP

Pre-cast Technology | Construction | Real Estate | Architectural Design

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# **Revolutionizing Construction**

## **Precast Concrete Technology in a Growing Economy**



Welcome to

# CTSR GROUP

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We are a real estate and construction company dedicated to redefining the precast construction industry with transformative experiences through intricately designed architecture.

CTSR designs, manufactures, delivers and installs precast and pre-stressed concrete products for commercial, industrial, institutional, and high density multi-family use.

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# Our Mission

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“We strive to provide the utmost quality, yet affordable residential buildings, commercial facilities, public facilities, industrial facilities and infrastructure projects, in order to uphold the gratification of our clients.”

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# What We Do



**Automated Precast  
Concrete Production**

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**Precast Concrete  
Installation**

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**Real Estate  
Developers**

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**Facility  
Management**

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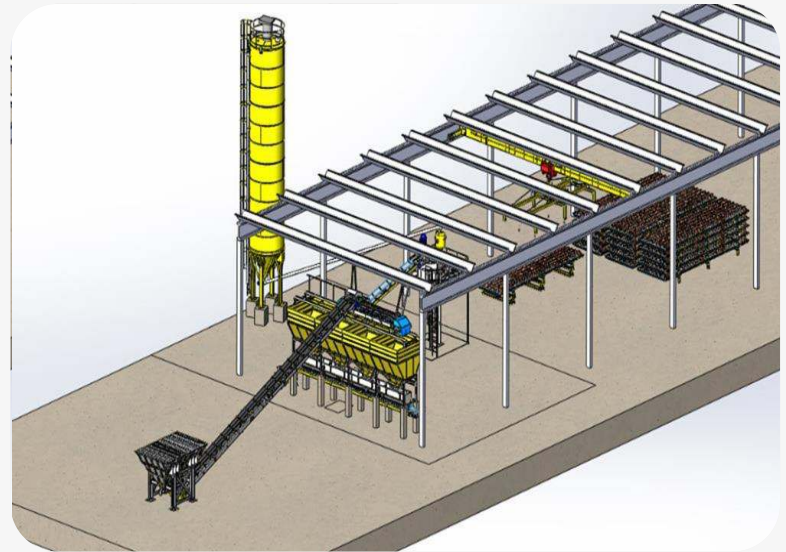
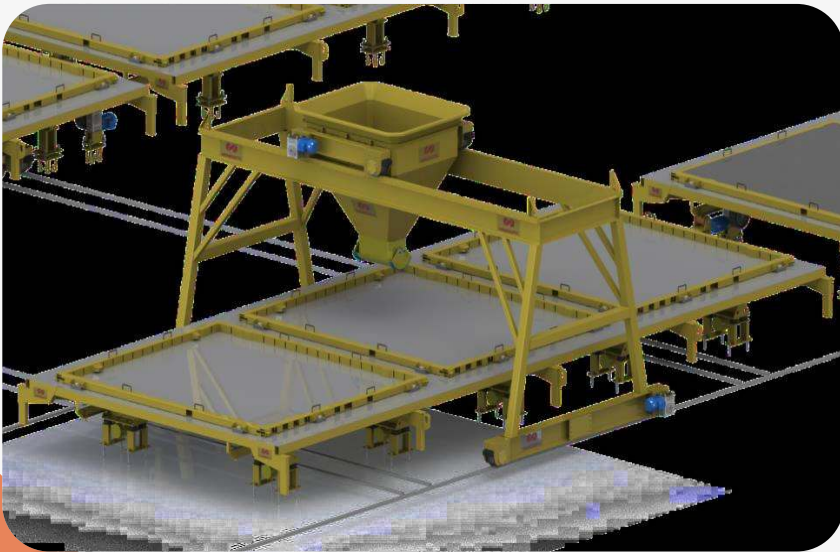
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# CTSR Precast Factory



# Our Factory

- To start production as soon as possible.
- Capacity: 400,000 square meters per year of floor plates only.
- Easy to accommodate wall panels also – 300,000 square meters per year.



# Facts About Nigeria

- Nigeria is the most populous country in Africa and the 8th in the world, with a population of over 173 million people.
- Over the past decade, the economy has been growing at an average rate of around 7% yearly.
- Lagos has the biggest, most liquid market in the country.





# Facts About Nigeria... cont.

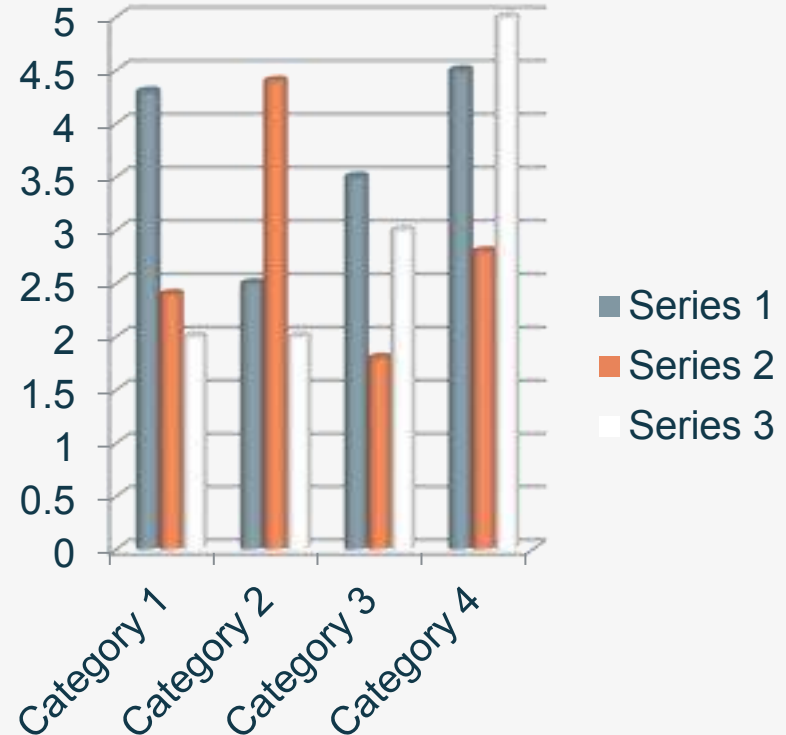
Nigeria's housing deficit is estimated at 17 million units which equates to an investment need of nearly \$600 billion when based on an average house price of a modest N5 million.

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# 17,000,000

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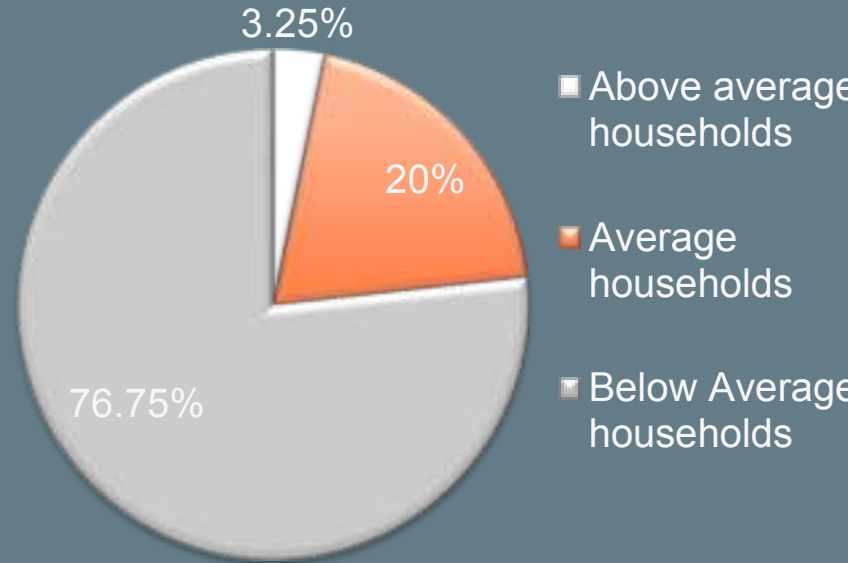
**Housing Deficit**



# Home Affordability

The existing housing stock in Nigeria is expensive when compared to the local household incomes.

This is primarily due to the exceedingly high demand for housing units, and the high cost of new constructions globally.



# Opportunities



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The Federal government promised to provide 1 million a year, to bridge the deficit gap in financing of housing.

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They also set up a mortgage refinance facility to allow a lot of citizens have access to mortgage financing.

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Housing  
provision &  
innovative  
building  
technologies.

## CTSR Facts:

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Given the extreme supply-demand imbalance in the housing market, the high cost of construction, and the reluctance of financiers to invest in technologies that drives down the costs of affordable housing in general —~~is to become precast concrete innovative building technologies deficit in the country.~~

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# CTSR Facts

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Housing  
provision  
technologies for  
low cost housing

Imbalance; the abundance of demand at the bottom conventional construction techniques & materials; in low-cost housing, innovative building can be explored if social housing – and more a realistic possibility in Nigeria.

Automated technologies which can bridge the gap in Housing.

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# Precast Concrete Technology

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Precast concrete is a construction method where concrete components are manufactured off-site in controlled conditions, transported, and assembled at the construction site.



# Benefits of Precast Concrete Technology

## 1. Speed and Efficiency

- Faster construction times
- Reduced labor requirements
- Concurrent construction activities

## 2. Quality Assurance

- Consistency in manufacturing
- Fewer defects and rework
- Controlled curing conditions

## 3. Sustainability

- Reduced waste
- Lower energy consumption
- Longer lifespan



# Benefits cont...

## 4. Cost Savings

- Predictable project timelines
- Reduced maintenance expenses

## 5. Design Flexibility

- Diverse architectural possibilities
- Customization options
- Integration with other materials





# Applications in a Growing Economy

## 1. Residential Construction

- Affordable housing
- Rapid urbanization

## 2. Infrastructure Development

- Bridges and tunnels
- Mass transit systems

## 3. Commercial & Industrial Buildings

- Warehouses
- Office complexes

## 4. Green Building Initiatives

- LEED-certified projects
- Environmental compliance



# Challenges & Solutions

## 1. Transportation & Logistics

**Solution:** Efficient transport planning

## 2. Skilled Labor Shortages

**Solution:** Training programs

## 3. Initial Investment

**Solution:** Long-term cost savings

# Future Outlook

## 1. Technological Advancements

- 3D printing and robotics
- IoT integration for monitoring

## 2. Global Expansion

- Exporting precast components
- International collaborations

## 3. Sustainable Practices

- Carbon-neutral production
- Circular economy principles



# Conclusion

01

The precast concrete market is poised for exponential growth as the construction sector continues to expand.

02

Precast concrete is truly a sustainable green product, is also highly durable and uses an extremely low water-cement ratio.

03

Precast concrete offers numerous advantages over traditional on-site construction methods, including cost effectiveness, shorter project timelines, enhances durability, and reduced environment impact.

# Precast Technology Video Reel



Play





# Thank You

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Do you have any questions?

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