

## **City Centre Sustainable Housing Design Competition**

# ***Workshop 1: The Competition Processes***

Date: 20 March 2024

Time: 16:00-18:00

Venue: Online hosted by the CIB

Presenter: Francine van Tonder





This competition is initiated by the International Council for Research and Innovation in Building and Construction (CIB) Working Commissions 116 Smart and Sustainable Built Environments, and 107 Construction in Developing Countries, with support from Nelson Mandela University.

## **City Centre Sustainable Housing Design Competition**

Sponsored by: the National Home Builders Registration Council (NHBRC) and Boogertman and Partners (B+P).

Exhibition and prize giving hosted by the: Nelson Mandela University at the 18th Built Environment Conference.

The 2024 sponsors



CIB sustainable housing com



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cibworld.org

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### City Centre Sustainable Design Housing competition workshops

03 Jul 2023 — The City Centre **Sustainable Design Housing** competition in South Africa is a joint initiative of the **CIB** Working Commissions in Architectural ...



cibworld.org

https://cibworld.org News & Events

### City Centre Sustainable Housing Design Competition 2024 - CIB

10 Mar 2024 — The second City Centre **Sustainable Housing** Design competition is open to students in South African architecture institutions.

#### People also ask

What is the meaning of sustainable housing?



What is the sustainable design competition?



What is sustainable housing development UK?



Feedback



The 2024 webpage

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# City Centre Sustainable Housing Design Competition 2024

March 10, 2024 | No Comments



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# Sustainable Housing Design competition

The City Centre Sustainable Housing Design competition in South Africa is a joint initiative of the CIB Working Commissions in Smart and Sustainable Built Environments (W116), and Construction in Developing Countries (W107).

The City Centre Sustainable Housing Design competition (CCSHDC) is for teams of undergraduate architectural students, and students in other disciplines at thirteen South African universities. It is sponsored by the [National Home Builders Registration Council \(NHBRC\)](#) in South Africa and [Boogertman and Partners \(B+P\)](#) and is being hosted by the Nelson Mandela University.

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- Environmental sustainability – Jeremy Gibberd
- Economic Sustainability – TBC
- Social Sustainability – TBC

### Workshop 4

Wednesday 10th April 16:00 – 18:00 SAST(GMT+2)

- Indigenous Knowledge Systems – TBC
- Innovative and Sustainable Building Technologies – Isaac Hartley (NHBRC)
- Closing remarks and discussion – Jeremy Gibberd, Francine van Tonder

Register for the workshops now

## About the CCSHD competition

The competition is open to teams of undergraduate students at the following architectural learning sites:

- Cape Peninsula University of Technology – Architectural Technology and Interior Design
- Durban University of Technology – Department of Architecture

October 2021	16
September 2021	8
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July 2021	20
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Newsletter Subscription



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Back to the brief



The competition has a focus on environmental, economic, and social sustainability, diversity and inclusion, sufficiency, self-build, unit design, strategies for the future and innovative materials. This is reflected in the prizes that will be awarded (see Prizes) and will be addressed in the workshop series (see Workshops).

### Site

The site is located in Gqeberha, Eastern Cape. The closest corner is Community Street and 5<sup>th</sup> Avenue; with Walmer Primary School to the west and the Chief Dawid Stuurman International Airport to the east. The site is 3,2 Km from the Gqeberha city hall. The site is 10 hectares.

- Site coordinates for Google Earth are: 33°59'04"S 25°36'26"E
- Further site information and photos are coming soon.



The 2024 site

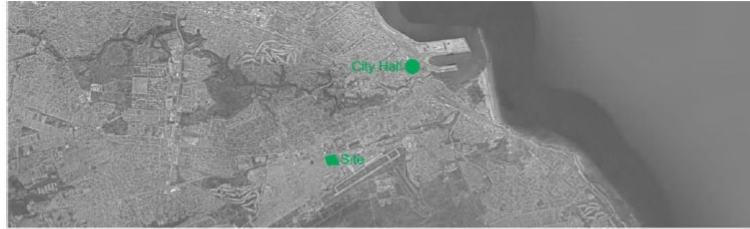


Figure 1: Locality



Figure 2: The context



The 2024 site

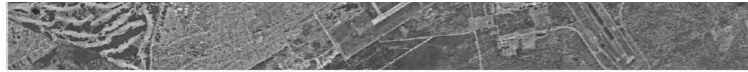


Figure 2: The context

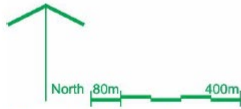
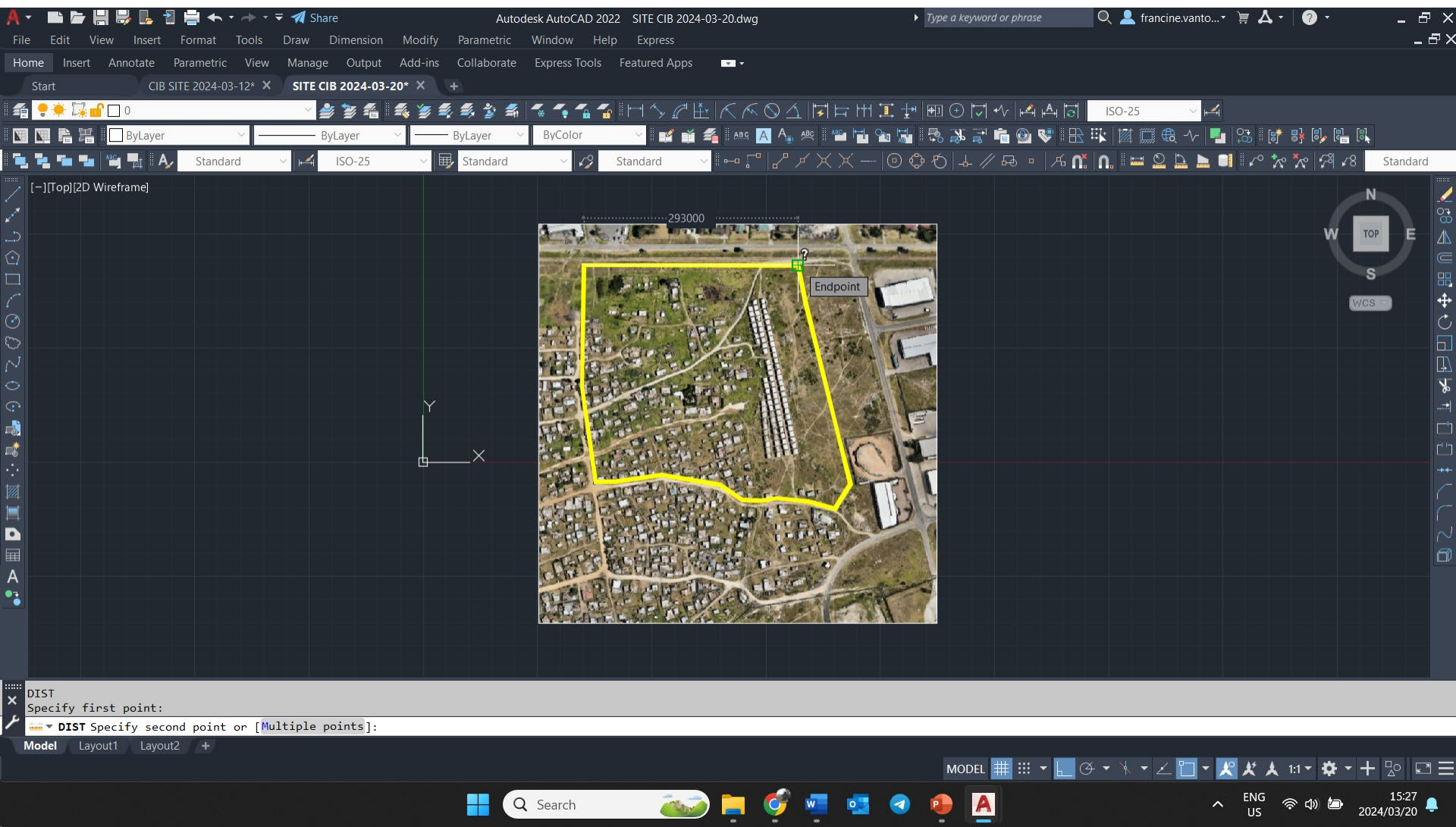
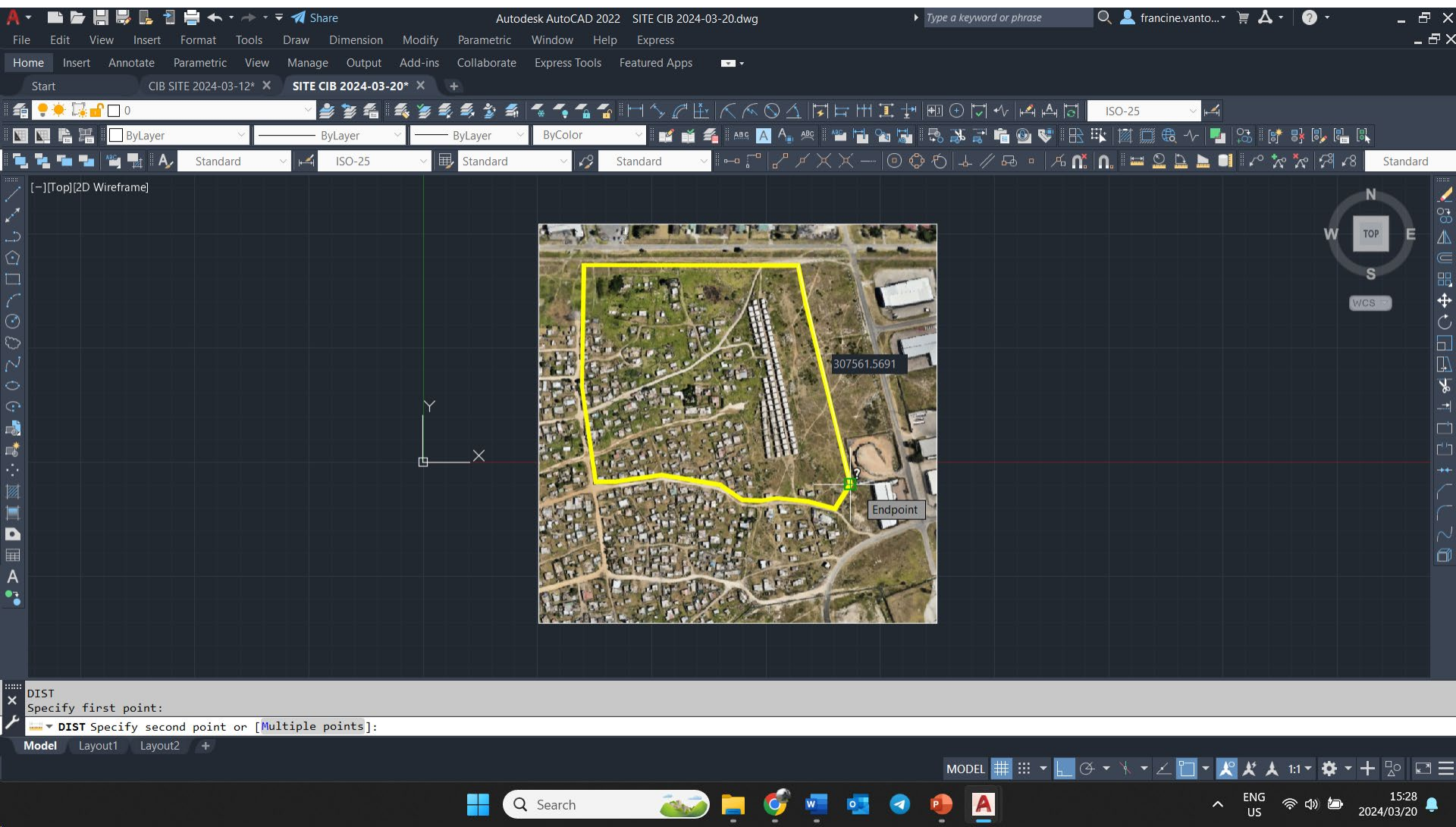


Figure 3: The site

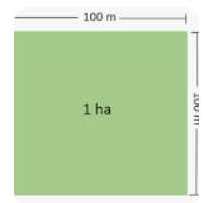




### People also ask :

How long is a hectare in Metres?

The hectare (/ˈhɛktəər, -tɑːr/; SI symbol: ha) is a non-SI metric unit of area equal to a square with 100-metre sides (1 hm<sup>2</sup>), that is, 10,000 square meters (10,000 m<sup>2</sup>), and is primarily used in the measurement of land.



Wikipedia  
<https://en.wikipedia.org/wiki/Hectare>

[Hectare - Wikipedia](#)

Search for: [How long is a hectare in Metres?](#)

Is 100m by 100m a hectare?

A hectare, our common unit for measurement of area of land, is 100 ares. It is the area of a square 100m by 100m, but of course it can be any shape.

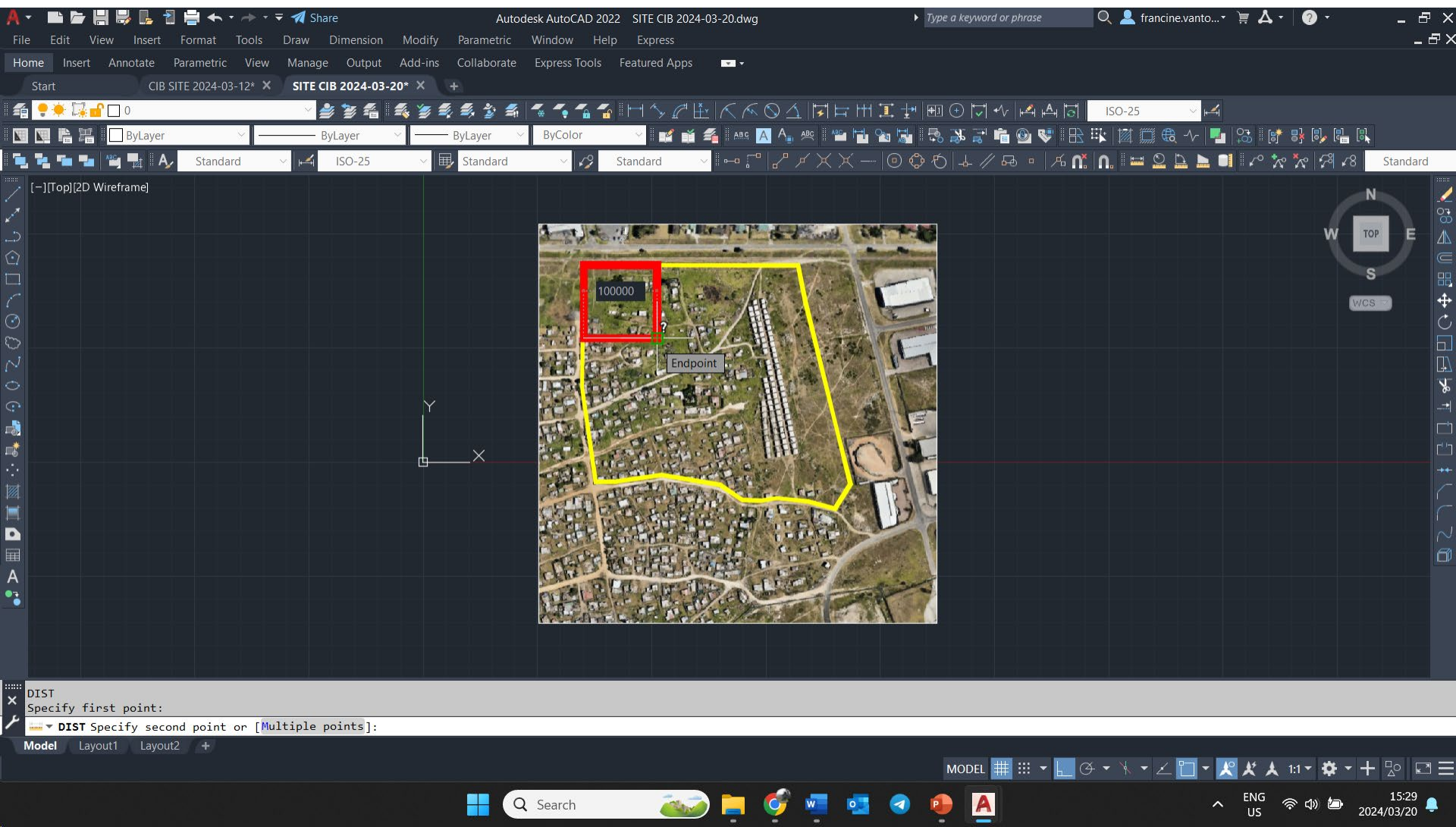
unimelb.edu.au  
<https://extranet.education.unimelb.edu.au/measurearea>

[Measuring Area - Extranet](#)

Search for: [Is 100m by 100m a hectare?](#)



The 2024 site



## Evaluation criteria

The following evaluation criteria will be used to judge the competition.

- Explore environmental sustainability (ES)
- Support economic sustainability (EC)
- Value social sustainability (SO)
- Enable diversity and inclusion within the population (ID)
- Encourage self-sufficiency and self-build (SB)
- Envisage and prepare strategies for the future (FS)
- Create comfortable, adaptable and flexible housing units (UD)
- Promote innovative building technologies and indigenous materials (IB)
- Respond to the site opportunities and challenges
- Enhance the lives of residents and neighbours.

## Accommodation Schedule

A table should be provided on the sheet which details the type and size of functions accommodated in the following way:

Function	Description	Overall number	Overall floor area (m2)	Overall coverage (m2)
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- Respond to the site opportunities and challenges
- Enhance the lives of residents and neighbours.

## Accommodation Schedule

A table should be provided on the sheet which details the type and size of functions accommodated in the following way:

Function	Description	Overall number (occupants/users)	Overall floor area (m2)	Overall coverage (m2 and percentage, ex. 48%)
Housing units	(Example) 100 no 1 bed, 30 m2 units 200 no 2 bed, 60 m2 units ...	2200	66 000 m2	48 000 m2 48%
Work units	(Example) 12 no 2 person, 30 m2 units ...	24	360	
Other amenities and/or activities in your proposal	...			
<b>Subtotals</b>				

**Key:** Key features (sustainability, inclusion etc.) that have been incorporated in designs should be labelled on the sheet and described in a key as follows:



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Key	Description
Environmental Sustainability (EN)	
EN 1	
EN 2	
Economic Sustainability (EC)	
EC 1....	

The following key should be used:

- EN for Environmental Sustainability i.e. EN1 for feature 1 etc.
- EC for Economic Sustainability i.e. EN1 for feature 1 etc.
- SO for Social Sustainability i.e. SO1 for feature 1 etc.
- ID for Inclusion and Diversity i.e. ID1 for feature 1 etc.
- SB for Self-Build and Self Sufficiency i.e. SB1 for feature 1 etc.
- UD for Unit Design i.e. UD1 for feature 1 etc.
- FS for Future Strategy i.e. FS1 for feature 1 etc.
- IB for Innovative Building Technologies i.e. IB1 for feature 1 etc.

### Judges

The panel of judges will consist of representatives from the following organisations:



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- EN for Environmental Sustainability i.e. EN1 for feature 1 etc.
- EC for Economic Sustainability i.e. EN1 for feature 1 etc.
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## Judges

The panel of judges will consist of representatives from the following organisations:

- International Council for Research and Innovation in Building (CIB)
- National Home Builders Registration Council (NHBC)
- Boogertman and Partners (B+P)
- National Department of Human Settlements (DHS)
- Council for Scientific and Industrial Research (CSIR)
- Pretoria Institute of Architects (PIA).

## Submissions

Submission should be made by sending 1 no. A1 (594 x 841 mm) size page in portrait orientation, which presents and explains the proposal of each team. The A1 sheet should include plans, sections, elevations, and three-dimensional representations; as well as diagrams and text that explain the approach and solutions, as indicated above.



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The judging



The judging

- International Council for Research and Innovation in Building (CIB)
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### Submission Requirements

Submit 1 no. A1 (594 x 841 mm) size page in .pdf file format per team. The file name must be labelled, in the bottom right-hand corner of the page, with the three-digit number allocated to the submission. For example "135" in 16-size text. Each architectural learning site will be provided with 25 three-digit reference numbers.

Should your architectural learning site not formally participate in the competition then you can request a number from: [CIBCityCentreSustainableDesign@gmail.com](mailto:CIBCityCentreSustainableDesign@gmail.com)

Please ensure that there are no identifiers such as names or university information on your sheet. All entries must be anonymous.

Submission will be made to [CIBCityCentreSustainableDesign@gmail.com](mailto:CIBCityCentreSustainableDesign@gmail.com).  
Submissions will open on the 10<sup>th</sup> of May 2024 and close on the 17<sup>th</sup> of May 2024. Allow at least 2 hours for your submission as information on all the participants in your group must be captured. No submissions will be accepted after this date. We recommend that you submit early to avoid any technical issues. An acknowledgement of receipt email will be sent with the reference number to the team members listed in each submission.

### **Copyright of submissions**

The organisers reserve the right to use any submitted material for non-profit making promotions, and publications in academic research, academic journals and at academic conferences. The participants of the competition submissions will be credited in all cases.

### **Competitors**

The competition is open to teams of undergraduate students at the following architectural learning sites:



## Submission requirements



## Competitors

The competition is open to teams of undergraduate students at the following architectural learning sites:

- Cape Peninsula University of Technology - Architectural Technology and Interior Design
- Durban University of Technology - Department of Architecture
- Nelson Mandela University - School of Architecture
- Tshwane University of Technology - Department of Architecture and Industrial Design
- University of Cape Town - the School of Architecture Planning and Geomatics
- University of Johannesburg - Architecture
- University of KwaZulu-Natal - Architecture, Planning & Housing
- University of Pretoria - Department of Architecture
- University of the Free State - Department of Architecture
- University of the Witwatersrand - School of Architecture and Planning
- School of Explorative Architecture, Cape Town
- School of Architecture & Spatial Design, STADIO
- Inscape Education Group, Architectural Technology.

For 2024 one international architectural learning site is invited to participate namely:

- University of Wyoming – department of Civil and Architectural Engineering and Construction Management

Teams must consist of two to six members. A member may only form part of one team. Members from other disciplines such as Human Settlements, Construction Management, and Biology could be included.

### Important dates

<b>Submission due date</b>	<i>17<sup>th</sup> of May 2024</i>
<b>Judging dates</b>	<i>30<sup>th</sup> / 31<sup>st</sup> of May 2024 in Pretoria</i>
<b>5 min video submission due date</b> Members and proposal introduction submission from 12 finalist groups	<i>10<sup>th</sup> of June 2024</i>
<b>Exhibition and Prize-giving</b>	<i>Hosted at the 18th Built Environment Conference Construction 5.0: Towards a Collaborative and People-Centered Industry, 15 July 2024 at Nelson Mandela University</i>



Architectural learning sites invited to participate

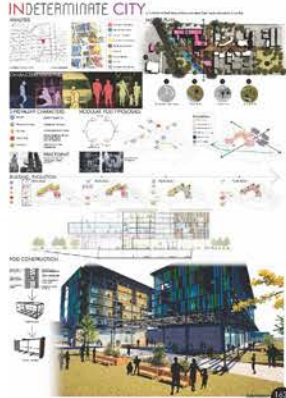
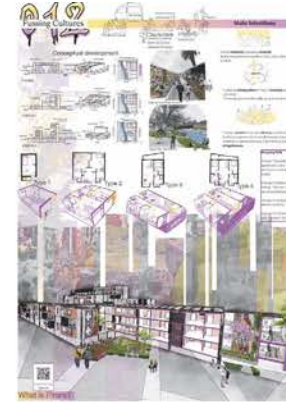
submission from 12 finalist groups	
<b>Exhibition and Prize-giving</b>	<i>Hosted at the 18th Built Environment Conference Construction 5.0: Towards a Collaborative and People-Centered Industry, 15 July 2024 at Nelson Mandela University</i>

### Prizes

<b>Overall Scheme</b>	<i>South African Rands (ZAR) (75 500-00 total)</i>
First prize	<i>10 000-00</i>
Second prize	<i>7 500-00</i>
Third prize	<i>5 000-00</i>
<b>Sustainability Prizes</b>	
Environmental	<i>7 500-00</i>
Economic	<i>7 500-00</i>
Social	<i>7 500-00</i>
<b>Merit Prizes</b>	
Future strategy	<i>7 500-00</i>
Self-build and sufficiency	<i>7 500-00</i>
Unit design	<i>7 500-00</i>
<b>Sponsors Prize</b>	
Innovative building technologies	<i>8 000-00</i>



Prizes



The 2023 winners

Submission 268  
 Nelson Mandela University, School of  
 Architecture.

- 1) Amahle Ngcakane.
- 2) Hlonela Gulwa.
- 3) Lihle Gule.



WINNER – FIRST PLACE

Submission 275  
 Cape Peninsula University of Technology,  
 Architectural Technology and Interior  
 Design.

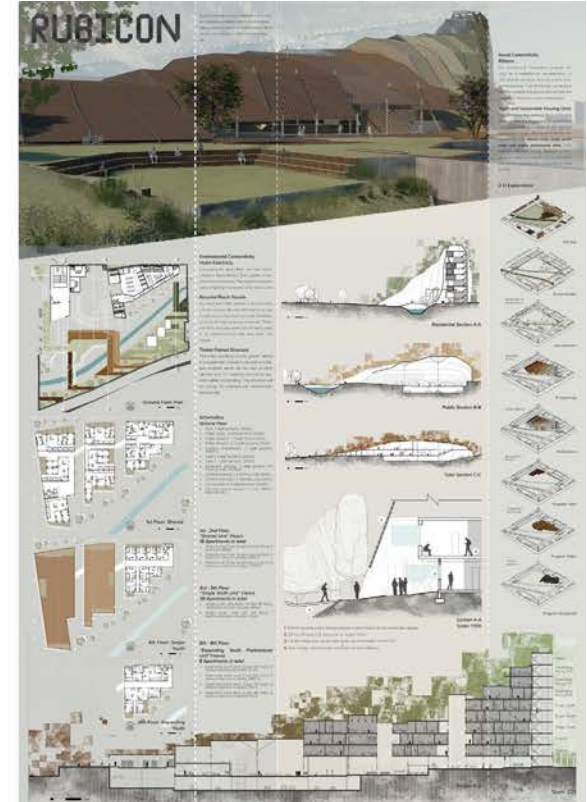
- 1) Mashudu Brian Mbedzi.
- 2) Liam Magalie.
- 3) Janaine Raul.
- 4) Rector Mathebula.



WINNER – SECOND PLACE

Submission 223  
 University of Johannesburg, Architecture.

- 1) Matthew Visser.
- 2) Gerald Guerra.
- 3) Shyam Mnagar.



WINNER – THIRD PLACE



The 2023 winners: first, second and third

Submission 104  
University of Cape Town, School of  
Architecture Planning and Geomatics.

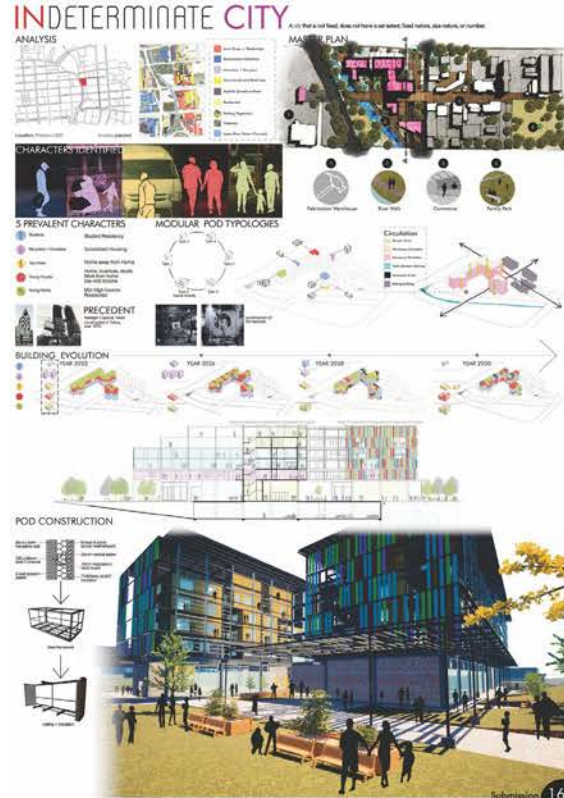
- 1) Grethe Geringer.
- 2) Jade Camacho.
- 3) Leigh Jansen.



WINNER – ENVIRONMENTAL  
SUSTAINABILITY

Submission 162  
Tshwane University of Technology,  
Department of Architecture and Industrial  
Design.

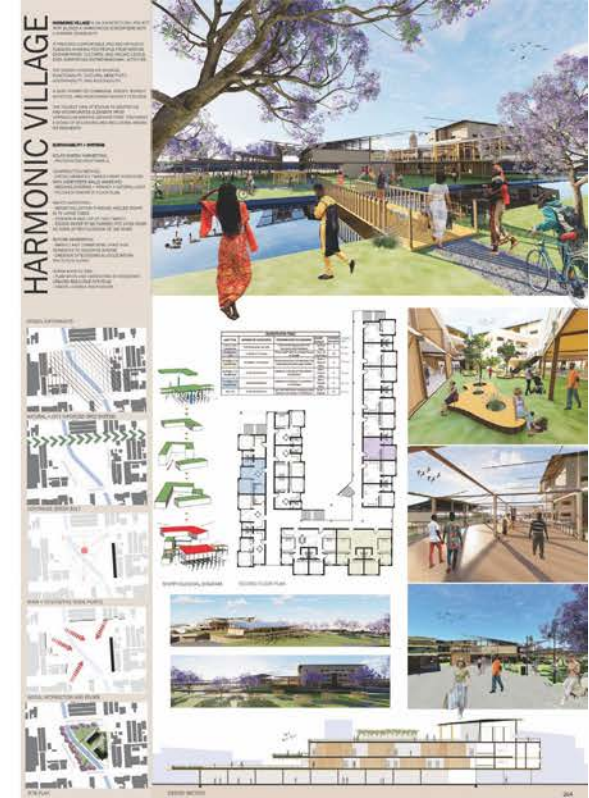
- 1) Sandile Matsaba.
- 2) Keanu Klaasen.



WINNER – ECONOMIC SUSTAINABILITY

Submission 254  
Nelson Mandela University, School of  
Architecture.

- 1) Kellan Jones.
- 2) Ricardo Diedericks.
- 3) Tiane Oelofse.
- 4) Theuns Janse van Rensburg.



WINNER – SOCIAL SUSTAINABILITY



The 2023 winners: environmental, economic, and social sustainability

Submission 251  
Nelson Mandela University, School of Architecture.

- 1) Carl Schutzler.
- 2) Zac Setzkorn.
- 3) Tsepo Khaliyane.

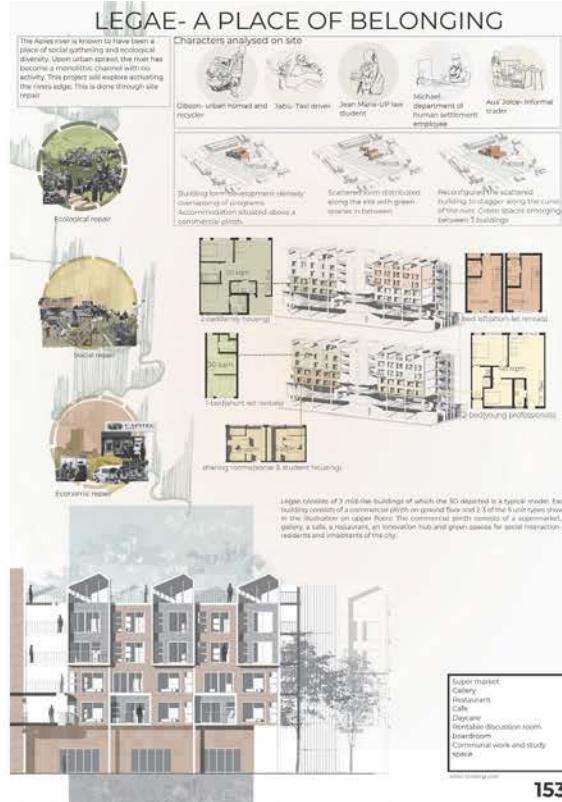


WINNER - SPONSORS PRIZE: INNOVATIVE BUILDING TECHNOLOGIES AND INDIGENOUS MATERIALS



Submission 153  
Tshwane University of Technology,  
Department of Architecture and Industrial Design.

- 1) Ntjidzi Grace Hikwa.
- 2) Relebogile Mphahlele.



HONOURABLE MENTION

Submission 151  
Tshwane University of Technology,  
Department of Architecture and Industrial Design.

- 1) Bontle Donatus.
- 2) Entle Makinta.



HONOURABLE MENTION

The 2023 winners: innovative building technologies and indigenous materials, and honourable mentions

Submission 105  
 University of Cape Town, School of  
 Architecture Planning and Geomatics.

- 1) Neighcar Kgomokaboya.
- 2) David Dlamini.



HONOURABLE MENTION

Submission 250  
 Nelson Mandela University, School of  
 Architecture.

- 1) Adam Bowers.
- 2) Coenraad Pretorius.
- 3) Justin Bartlett.



HONOURABLE MENTION

Submission 255  
 Nelson Mandela University, School of  
 Architecture.

- 1) Priscilla Banda.
- 2) Josie Handman.
- 3) Kayla Iveson.



HONOURABLE MENTION



The 2023 winners: honourable mentions





One A1 submission per group`

and

not one A1 per person in the group.

So.

Only one person should submit, and only one A1 sheet should be submitted.



International Council for Research and Innovation  
in Building and Construction

The Future of the City Centre Network, with support from the University of Pretoria,  
and Nelson Mandela University, and sponsorship from the National Home Builders  
Registration Council (NHBR) and Boogertman and Partners (B+P)

Congratulates

Amahle Ngcakane  
Hlonela Gulwa  
Lihle Gule

Nelson Mandela University,  
School of Architecture

on their achievement in the 2023  
City Centre Sustainable  
Housing Design Competition

Winner - First Place

Prof. Jeremy Gibberd  
Co-ordinator CIB W118 Smart and  
Sustainable Built Environments

Prof. Bob Giddings  
Co-ordinator CIB W096 Architectural Design  
and Management

Prof. PD Rwelamila  
Co-ordinator CIB W107 Construction in  
Developing Countries

27th October 2023



International Council for Research and Innovation  
in Building and Construction

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School of Architecture Planning and Geomatics

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City Centre Sustainable  
Housing Design Competition

Winner - Environmental Sustainability

Prof. Jeremy Gibberd  
Co-ordinator CIB W118 Smart and  
Sustainable Built Environments

Prof. Bob Giddings  
Co-ordinator CIB W096 Architectural Design  
and Management

Prof. PD Rwelamila  
Co-ordinator CIB W107 Construction in  
Developing Countries

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Bontle Donatus  
Entle Makinta

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Department of Architecture and Industrial Design

on their achievement in the 2023  
City Centre Sustainable  
Housing Design Competition

Honourable Mention

Prof. Jeremy Gibberd  
Co-ordinator CIB W118 Smart and  
Sustainable Built Environments

Prof. Bob Giddings  
Co-ordinator CIB W096 Architectural Design  
and Management

Prof. PD Rwelamila  
Co-ordinator CIB W107 Construction in  
Developing Countries

27th October 2023



fin

What questions do you  
have for me?

