

# AGC: PIONEERING SUSTAINABLE LEARNING - A NET-POSITIVE ENERGY CAMPUS

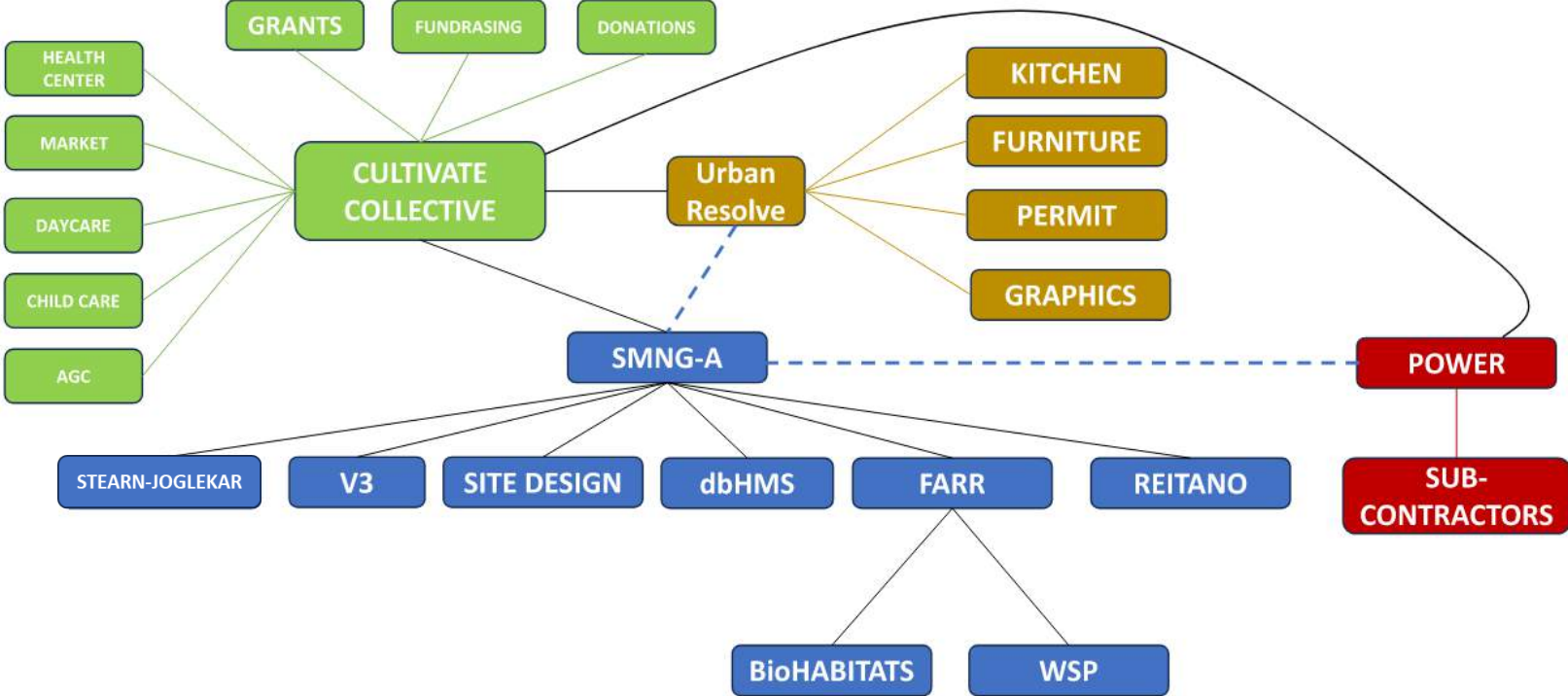
SMNG A Ltd, Farr Associates, dbHMS, & AGC



# Raising Expectations – Living Building Challenge



# Team



# Cultivate Collective & Academy of Global Citizenship

## Cultivate Collective Campus

- 6.5 Acre Urban Site
- 3 Acre Urban Farm
- Multiple Tenants

### Sharing Resources

- Academy For Global Citizenship (K–8) Charter School
- Pre-K Program
- Childcare
- Fresh Food Market & Café
- Community-Based Health Center





# Petal 01 - Place

Imperative 01 – Ecology of Place

Imperative 02 – Urban Agriculture

Imperative 03 – Habitat Exchange

Imperative 04 – Human-Scaled Living



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AGC | PAUL GUILIANELLI



FARR ASSOCIATES



Academy for Global Citizenship

db | HMS

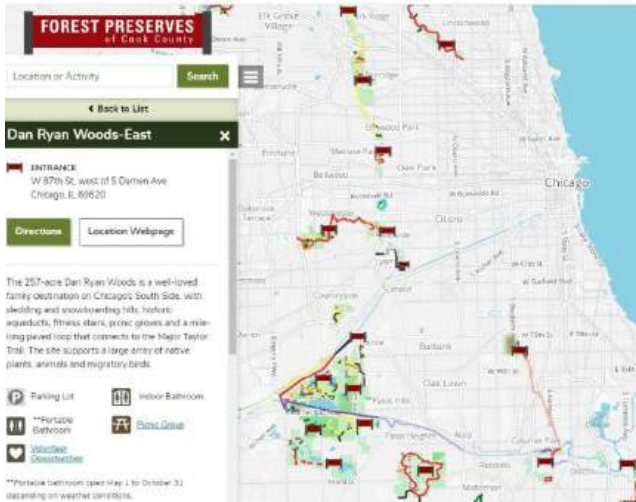
# Petal 01 - Place

Imperative 01 – Ecology of Place

Imperative 02 – Urban Agriculture

Imperative 03 – Habitat Exchange

Imperative 04 – Human-Scaled Living





# First Floor Plan



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# Second Floor Plan



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# Petal 02 – Water

Imperative 05 – Responsible Water Use

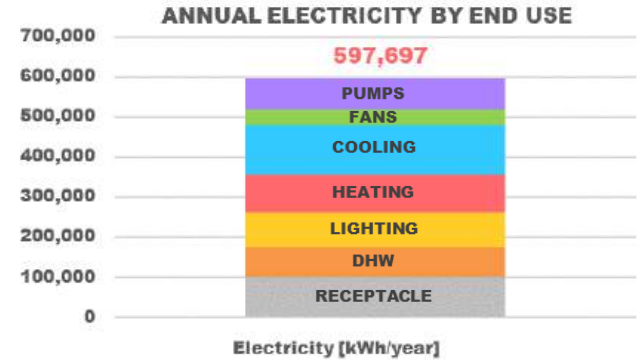
Imperative 06 – Net Positive Water



# Petal 03 - Energy

Imperative 07 – Energy + Carbon Reduction

Imperative 08 – Net Positive Carbon

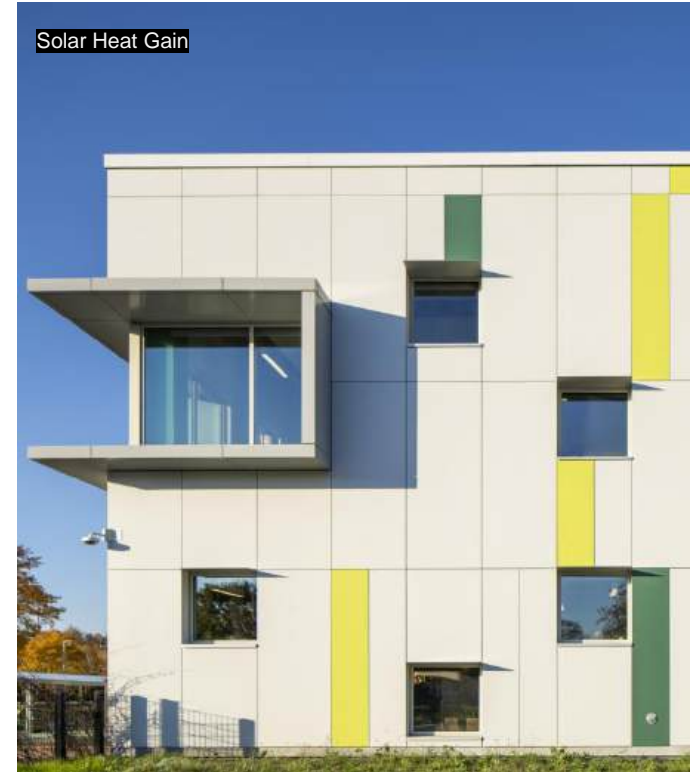


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# Petal 03 – Energy

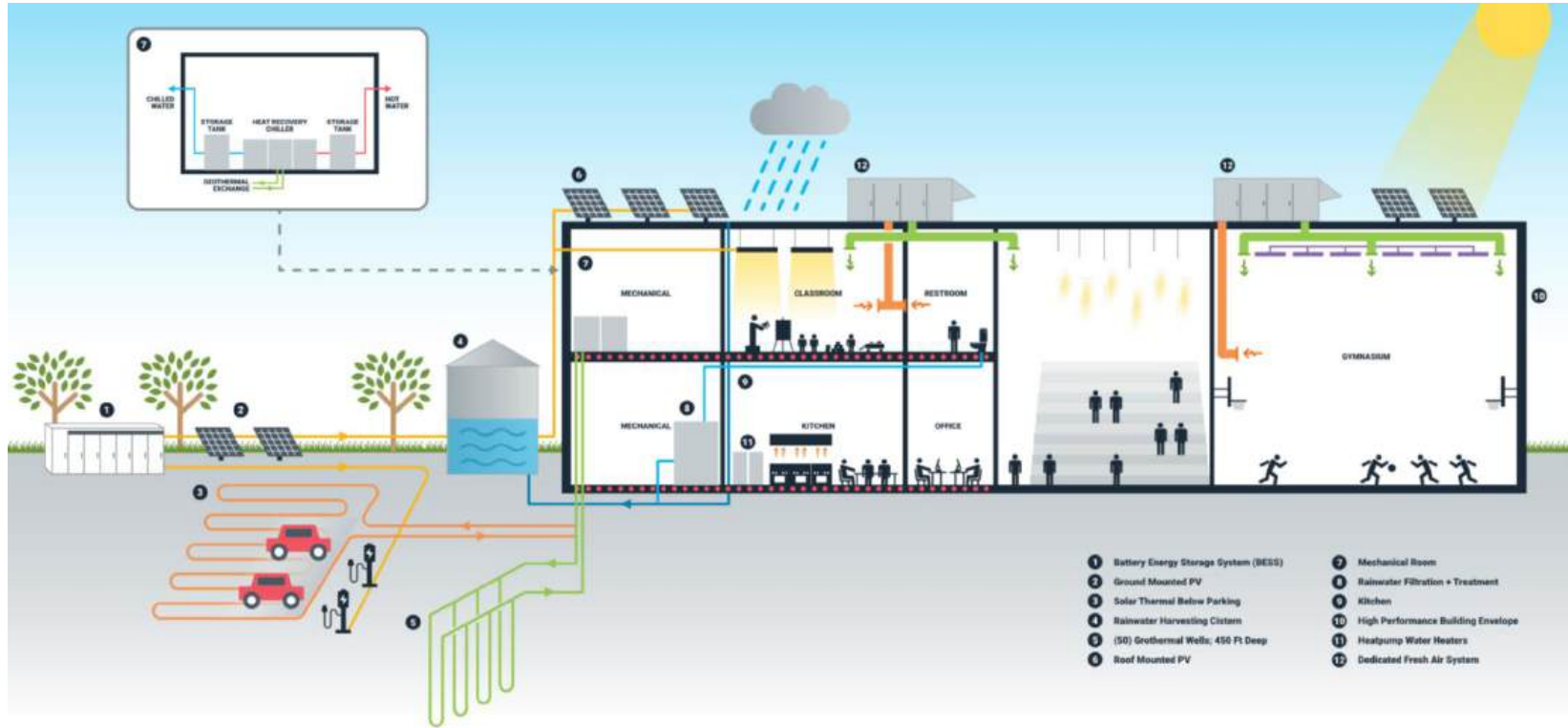
Imperative 07 – Energy + Carbon Reduction

Imperative 08 – Net Positive Carbon





# Petal 03 - Energy



# Petal 03 – Energy

Imperative 07 – Energy + Carbon Reduction

Imperative 08 – Net Positive Carbon

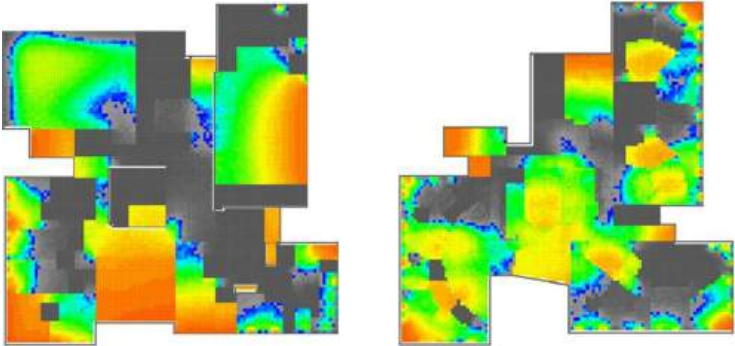


# Petal 04 – Health + Happiness

Imperative 09 – Healthy Int. Environment

Imperative 10 – Healthy Int. Performance

Imperative 11 – Access to Nature





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# Petal 05 – Materials

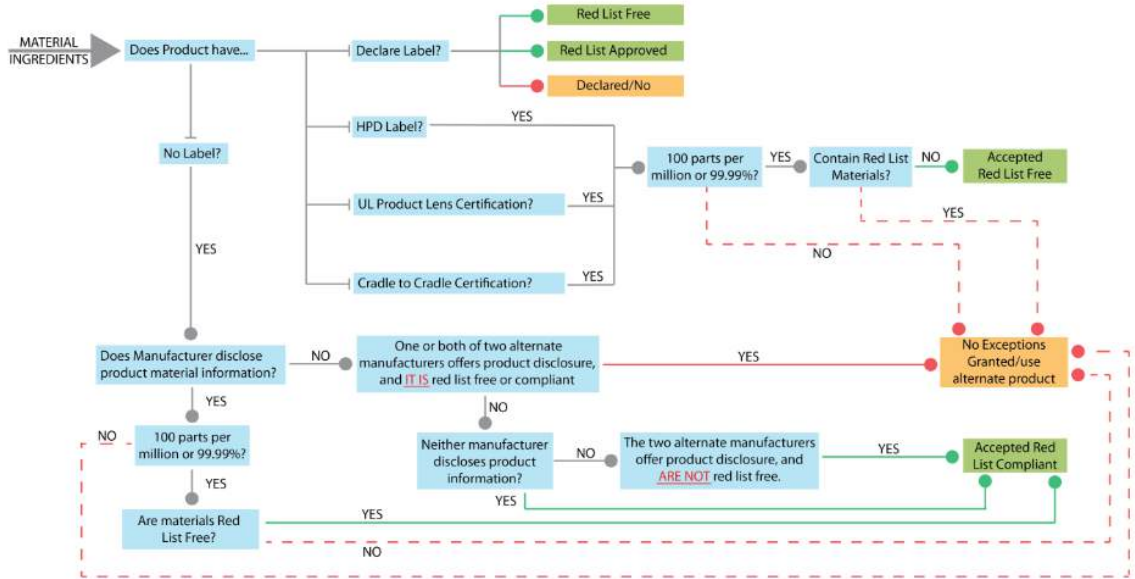
Imperative 12 – Responsible Materials

Imperative 13 – Red List

Imperative 14 – Responsible Sourcing

Imperative 15 – Living Economy Sourcing

Imperative 16 – Net Positive Waste





# Petal 05 – Materials

Imperative 12 – Responsible Materials

Imperative 13 – Red List

**Imperative 14 – Responsible Sourcing**

Imperative 15 – Living Economy Sourcing

Imperative 16 – Net Positive Waste



LIVING  
PRODUCT  
CHALLENGE

## Declare.

Gold RX  
Swegon North America

Final Assembly: Markham, Ontario, Canada  
Life Expectancy: 25 (years)  
End of Life Options: Recyclable (95%), Landfill (5%)

**Ingredients:**

Iron, Aluminum, Zinc, Steel, Polyethylene Terephthalate, Polyethylene, EPDM, Nylon 6, PC/ABS, Saturated polyester, Acetic acid ethyl ester, polymer with ethene, Polypropylene, Polycarbonate, Titanium dioxide, Glass, oxide, chemicals, Melamine, Amorphous silica, Polyester.

Living Building Challenge Criteria: Compliant

**I-13 Red List:**

LBC Red List Free      % Disclosed: 100% at 100ppm  
 LBC Red List Approved      VOC Content: Not Applicable  
 Disclosed

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

SWE-0001  
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INTERNATIONAL LIVING FUTURE INSTITUTE™ [www.declarelabel.com](http://www.declarelabel.com)



# Petal 05 – Materials

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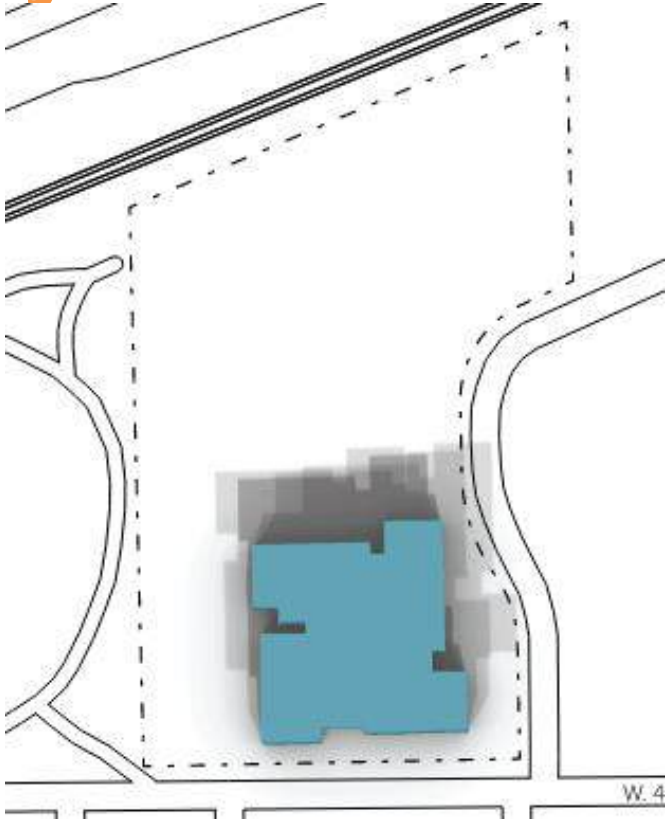
Imperative 16 – Net Positive Waste



# Petal 06 – Equity

Imperative 17 – Universal Access

Imperative 18 – Inclusion





# Petal 06 – Equity

Imperative 17 – Universal Access

Imperative 18 – Inclusion

**Just.**

Organization Name: SMNG A Ltd.  
 Organization Type: Architecture  
 Headquarters: Chicago, Illinois  
 Number of Employees: 11

Social Justice Indicators:

<b>Diversity &amp; Inclusion</b>	<b>Employee Benefits</b>
<input checked="" type="checkbox"/> Gender Diversity <input checked="" type="checkbox"/> Ethic Diversity <input checked="" type="checkbox"/> Inclusion <input checked="" type="checkbox"/> Engagement	<input checked="" type="checkbox"/> Health Care <input checked="" type="checkbox"/> Retirement Provision <input checked="" type="checkbox"/> Family/Medical Leave <input checked="" type="checkbox"/> Training/Education
<b>Equity</b>	<b>Stewardship</b>
<input checked="" type="checkbox"/> Full-Time Employment <input checked="" type="checkbox"/> Pay-Scale Equity <input checked="" type="checkbox"/> Freedom of Association <input checked="" type="checkbox"/> Living Wage <input checked="" type="checkbox"/> Gender-Pay Equity	<input checked="" type="checkbox"/> Local Communities <input checked="" type="checkbox"/> Volunteering <input checked="" type="checkbox"/> Animal Welfare <input checked="" type="checkbox"/> Charitable Giving <input checked="" type="checkbox"/> Positive Products
<b>Employee Health</b>	<b>Purchasing &amp; Supply Chain</b>
<input checked="" type="checkbox"/> Physical Health <input checked="" type="checkbox"/> Well-Being	<input checked="" type="checkbox"/> Ethical Purchasing <input checked="" type="checkbox"/> Supply Chain

THE SOCIAL JUSTICE LABEL 2.0  
 SMNG-001    EXP: 04/05/2025  
INTERNATIONAL LIVING FUTURE INSTITUTE™

**Just.**

Organization Name: Farr Associates  
 Architecture and Urban Design, P.C.  
 Organization Type: Architecture  
 Headquarters: Chicago, Illinois  
 Number of Employees: 9

Social Justice Indicators:

<b>Diversity &amp; Inclusion</b>	<b>Employee Benefits</b>
<input checked="" type="checkbox"/> Gender Diversity <input checked="" type="checkbox"/> Ethic Diversity <input checked="" type="checkbox"/> Inclusion <input checked="" type="checkbox"/> Engagement	<input checked="" type="checkbox"/> Health Care <input checked="" type="checkbox"/> Retirement Provision <input checked="" type="checkbox"/> Family/Medical Leave <input checked="" type="checkbox"/> Training/Education
<b>Equity</b>	<b>Stewardship</b>
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THE SOCIAL JUSTICE LABEL 2.0  
 FAR-001    EXP: 06/05/2025  
INTERNATIONAL LIVING FUTURE INSTITUTE™



Pursuant to the aforementioned agreements and requirements, inclusionary procurement and hiring minimums (floors, not ceilings) have been set as follows:

**BUSINESS PARTICIPATION**  
 26% Participation from Qualified Minority Business Enterprises  
 6% Participation from Qualified Women Business Enterprises  
 CHA Section 3 Resident Owned Business Engagement

**WORKFORCE PARTICIPATION**  
 50% Participation from Chicago Residents  
 CHA Section 3 Resident Hiring

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# Petal 07 – Beauty

Imperative 19 – Beauty + Biophilia

Imperative 20 – Education + Inspiration

BIOPHILIC PATTERN MATRIX										
	Site	Greenhouse	Commons Hall	Judson	Pro-E Village	K-1	23rd Village	419th Village	The Heart E1	The Heart E2
1. Visual Connection with Nature	9	10	8	7	6	7	7	7	7	8
2. Non-Visual Connection with Nature	9	9	8	7	6	7	7	7	7	8
3. Non-Biophilic Sensory Stimuli	9	8	7	6	5	6	6	6	6	7
4. Thermal & Airflow Variability	9	9	8	7	6	7	7	7	7	8
5. Presence of Water	9	8	7	6	5	6	6	6	6	7
6. Dynamic & Diffuse Light	9	9	8	7	6	7	7	7	7	8
7. Connection with Natural Systems	9	10	7	6	5	6	6	6	6	7
8. Biomorphic Forms & Patterns	9	10	8	7	6	7	7	7	7	8
9. Material Connection with Nature	9	8	7	6	5	6	6	6	6	7
10. Curvilinear & Circle	9	8	7	6	5	6	6	6	6	7
11. Prospect	9	10	8	7	6	7	7	7	7	8
12. Refuge	9	8	7	6	5	6	6	6	6	7
13. Mystery	9	8	7	6	5	6	6	6	6	7
14. Risk/Peril	9	10	8	7	6	7	7	7	7	8



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Imperative 20 – Education + Inspiration





THANK YOU!



FARR  
ASSOCIATES

db | HMS



Academy FOR  
Global Citizenship



URBAN  
RESOLVE

site

Stearn-Joglekar  
Consulting Structural Engineers

