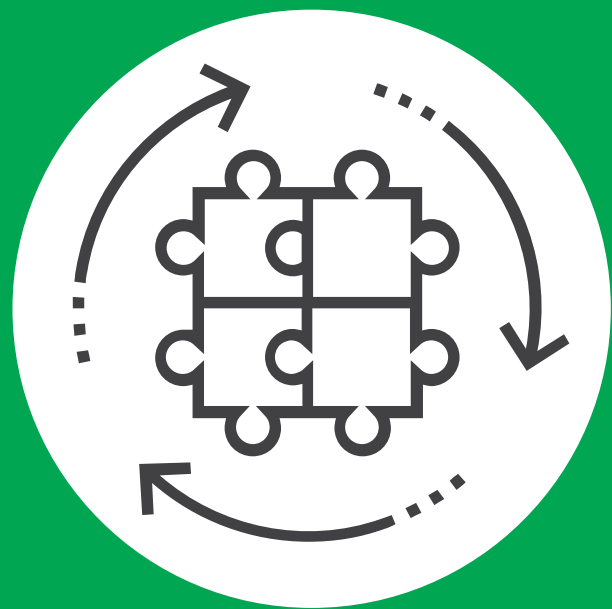


## WHY ASD?



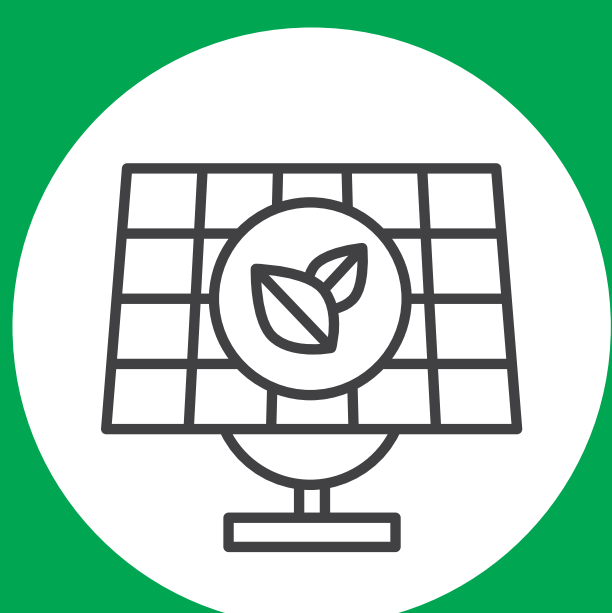
### MULTI-DISCIPLINARY, HANDS-ON APPROACH

You are poised to understand and implement effective and integrated solutions to modern challenges both within and beyond the built environment.



### HARNESS THE POWER OF TECH & DATA

Capability for data guided design and evidence-informed design solutions. Incorporate advanced fabrication techniques to overcome resource constraints. Leverage on technology to both document and advance the conservation of our built heritage.



### SUSTAINABILITY-CONSCIOUS

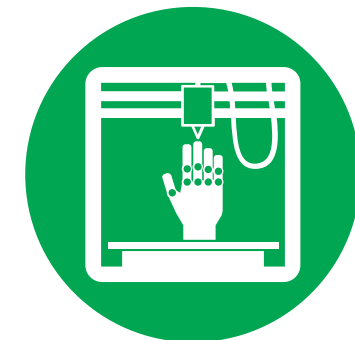
Integrate sustainability right from the start. You pursue intelligent and comprehensive architectural and urban solutions to counter rapid urbanisation, designing a better and more sustainable future.



### HOLISTIC UNDERSTANDING OF THE WORLD

Deliver designs for the future by looking beyond economic contexts into social and cultural dimensions through the use of technology, design computation methodologies and sustainable design principles.

Architecture is currently undergoing fundamental changes as it transitions into the digital era. **Constraints on resources, environmental changes** and the **rapid urbanisation** of the world require innovative methods and new forms of practicing architecture.



### RESOURCE CONSTRAINTS

Necessitates a radical rethinking of the traditional skills and trade-based production of the built environment. Advances in digital design and fabrication, such as 3D and 4D printing, numerically controlled milling, nano-materials, composite materials and additive fabrication, combined with digital mass-customisation techniques provide resource-efficient opportunities and lower production costs.



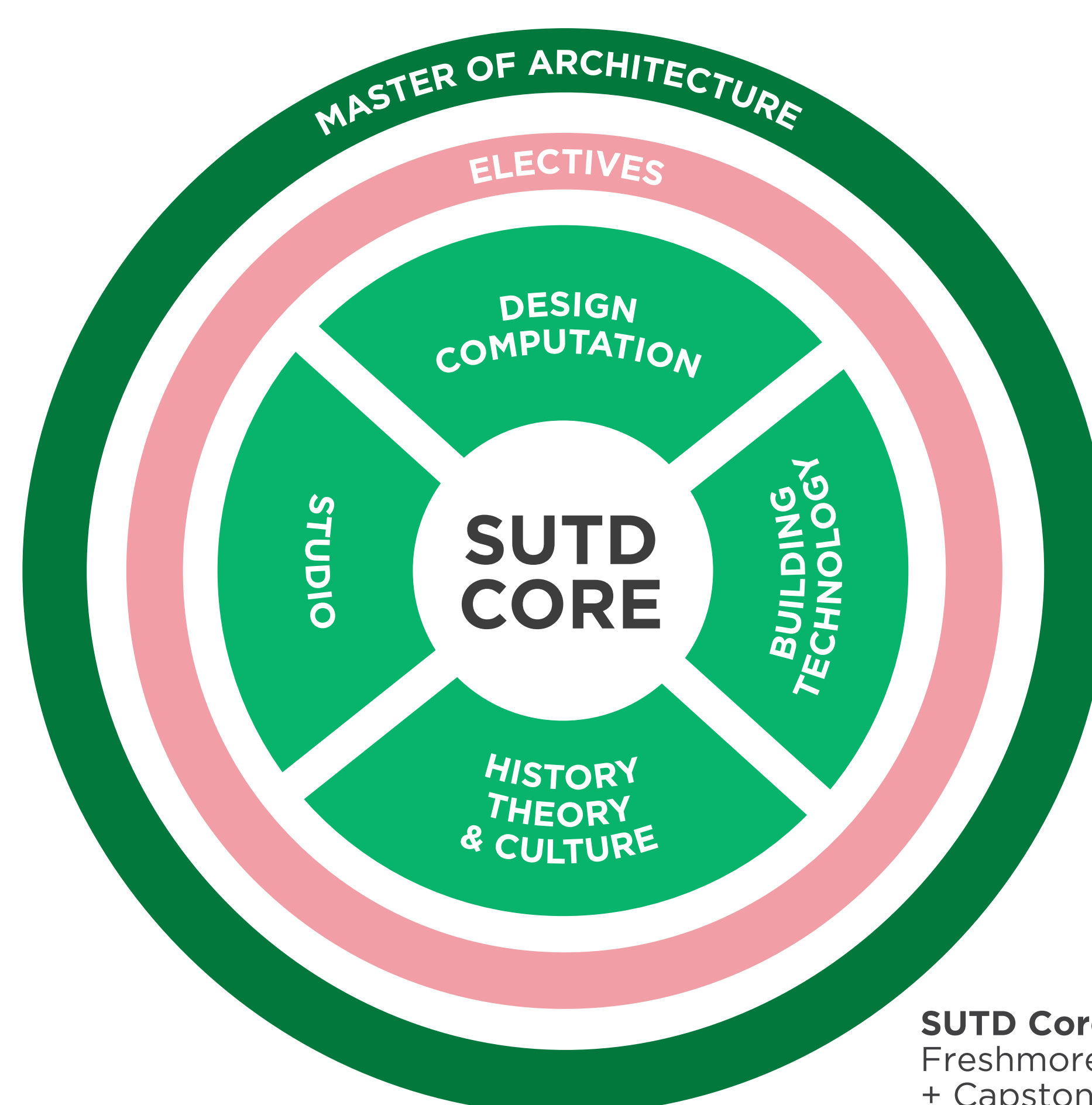
### ENVIRONMENTAL CHANGES

Demands a more ecological approach to the sustainable design of architecture and cities: digital data harvested from local sensor networks, satellites and crowd sourced information will feed the simulation of environmental forces and conditions such as wind flows, sun orientations, topographies and human traffic.



### RAPID URBANISATION

The coming decades will add three billion people to urban populations, an amount equal to all city dwellers today. This calls for sustainable architectural and urban solutions at an unprecedented speed and scale, demanding the use of digital tools in architectural and urban design.



**SUTD Core:**  
Freshmore subjects  
+ Capstone

ASD prepares our students for this changing reality. Our forward-looking curriculum allows students to attain a high level of technical competency and scientific knowledge while being attuned to the business opportunities and cultural contexts that will make their design projects meaningful and sustainable.

ASD graduates will be prepared for positions in:

- Architecture
- Urban design
- City planning
- Digital fabrication and design
- Computational architecture and design
- Environmental design
- Construction management
- Real estate development
- Architecture research
- Future cities research
- Post-professional masters
- PhD programmes