



Imperial College  
London

# Imperial College White City Campus

## An Innovation Ecosystem

Dr Eulian Roberts  
CEO Imperial College ThinkSpace  
**UKSPA 17 January 2019**



# White City Campus: Drivers

**New sciences emerging** big data, synthetic biology, engineering by design, internet embedded devices

**Collaborative** nature of scientific enquiry changing

**Undefined** long-term configurations of STEMB to solve future problems

**Scale and flexibility** needed to respond





# White City Campus: Principles

**A connected, permeable and open piece of the city** - a vibrant place open to all

**Common spaces to support collaboration and community** - where leading multi-disciplinary collaborators will work to solve the world's big challenges

**A flexible framework for flexible buildings** - the masterplan sets a highly flexible framework

**A place that feels complete at every phase** – create a strong sense of place from the outset





## Wood Lane Studios

Open since 2012, home for 600 postgraduate students



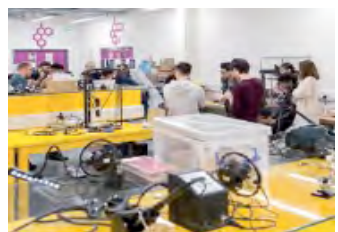
## Residential building

Will open in 2019, provide 192 homes, including 59 affordable apartments for Imperial key workers



## The Invention Rooms

New facilities with workshops, design studios and an interaction zone, opened for the local community



## The I-HUB

Opened in 2016, provides lab and office space for research-focused companies



## The Molecular Sciences Research Hub

State-of-the-art equipment is now being installed inside, ready for Department of Chemistry in September 2018



## Michael Uren Biomedical Engineering Research Hub

Will complete in 2019, it will bring together 600 engineers, scientists and doctors to tackle complex medical challenges



Where researchers from a range of backgrounds address common challenges in areas such as **energy, healthcare or sustainability**

**Including:**

- Imaging, Sensing and Analytical Chemistry
- ChemBio and Healthcare
- Advanced Catalysis and Synthesis
- Environmental and Green Chemistry
- Materials and Molecular Design
- Energy





Will combine the **latest medical research** and engineering to improve the treatment and diagnosis of diverse medical conditions, from finding new ways to **detect cancer to creating bionic limbs**

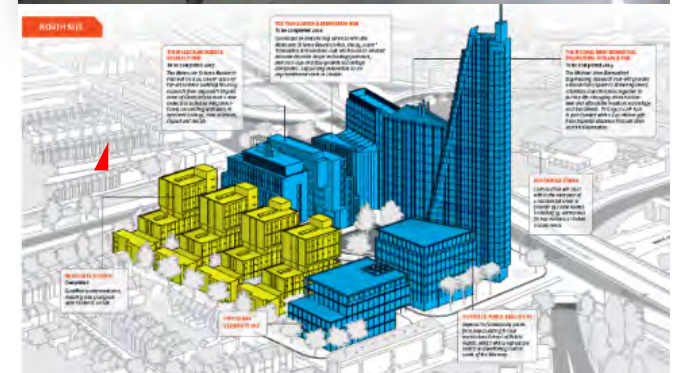
**Including:**

- Biomedical Engineering
- Plastic Electronics
- Robotics and Autonomous Systems
- Industrial Biotechnology
- Benefitting from proximity to clinical practice at Hammersmith Hospital



Wood Lane Studios provides high quality self-contained studio accommodation to help meet the growing demand of London's Postgraduate population

- Opened **September 2012**
- **606** High quality postgraduate studios
- 9 key worker flats for Imperial College staff
- 99% Occupancy



The Tower is an iconic landmark for Imperial College London White City Campus, demonstrating the presence of a world-leading institution. A third of the apartments are designated for Key Workers and Imperial NHS staff.

- Completion planned for **January 2019**
- **59** key worker units at a 20-30% discount
- **133** units available for rent
- A choice of unit types available from Studio to 3 bedroom apartments





A new 11k sqft space for **innovation** and the **community** in White City

Cutting-edge workshops, design studios and interactive spaces for collaboration with the local community and our partners

- **Reach Out Makerspace**: for young people from the local community to get hands-on experience of prototyping
- **Advanced Hackspace**: to access specialist manufacturing equipment (10 Hackers in Residence)
- **Interaction Zone**: café, event space and a garden terrace for the community and the College



Reach Out Makerspace



Advanced Hackspace



Community

Interaction Zone

- **Prototyping facilities** - Bring ideas to life through prototyping using dedicated maker spaces and equipment (e.g. Airbus)
- **Maker Events** - Hackathons, competitions, classes and other events (Maker Challenge programme for 14 to 18 year olds)
- **Members Network** - Meet and collaborate with other people, work on projects together and share your knowledge
- **Funding / mentoring** - Booster grants / mentoring to members for prototyping projects

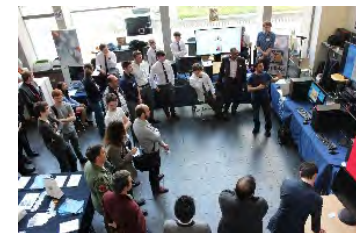


**Booster grants**



**Mentoring support**

Invention works



**Technology Showcases**

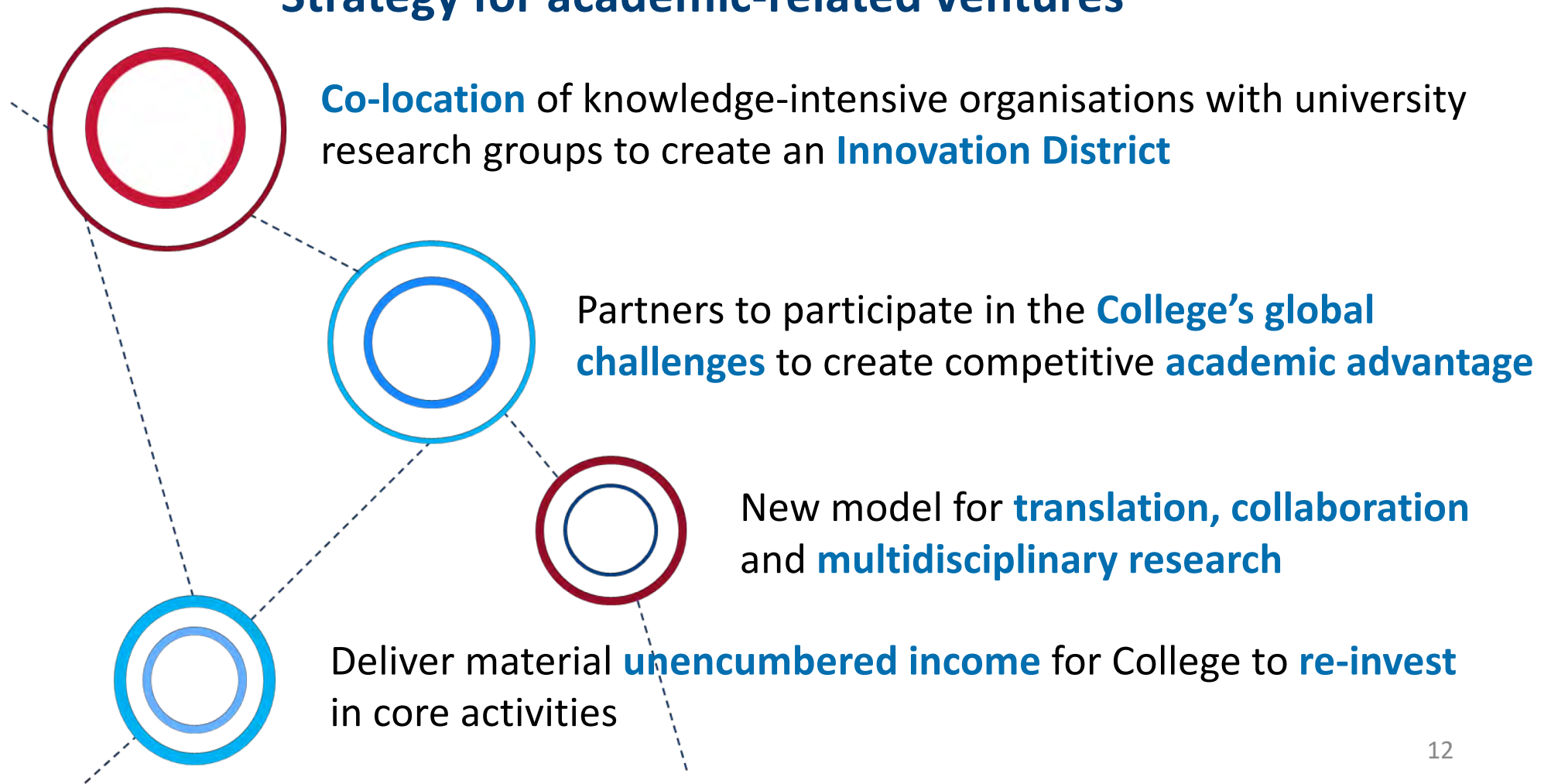
Expo events



- MedTech SuperConnector
- RebelBio – launched Jan 2018, 2 companies have stayed on in IWCI, next 2 cohorts planned,
- White City Innovators Programme with NatWest
- Innovation Academy: 300+ Imperial inventors
- Experts in Residence



## Provide space and an environment to deliver the College Strategy for academic-related ventures





# Value proposition for co-location

## College

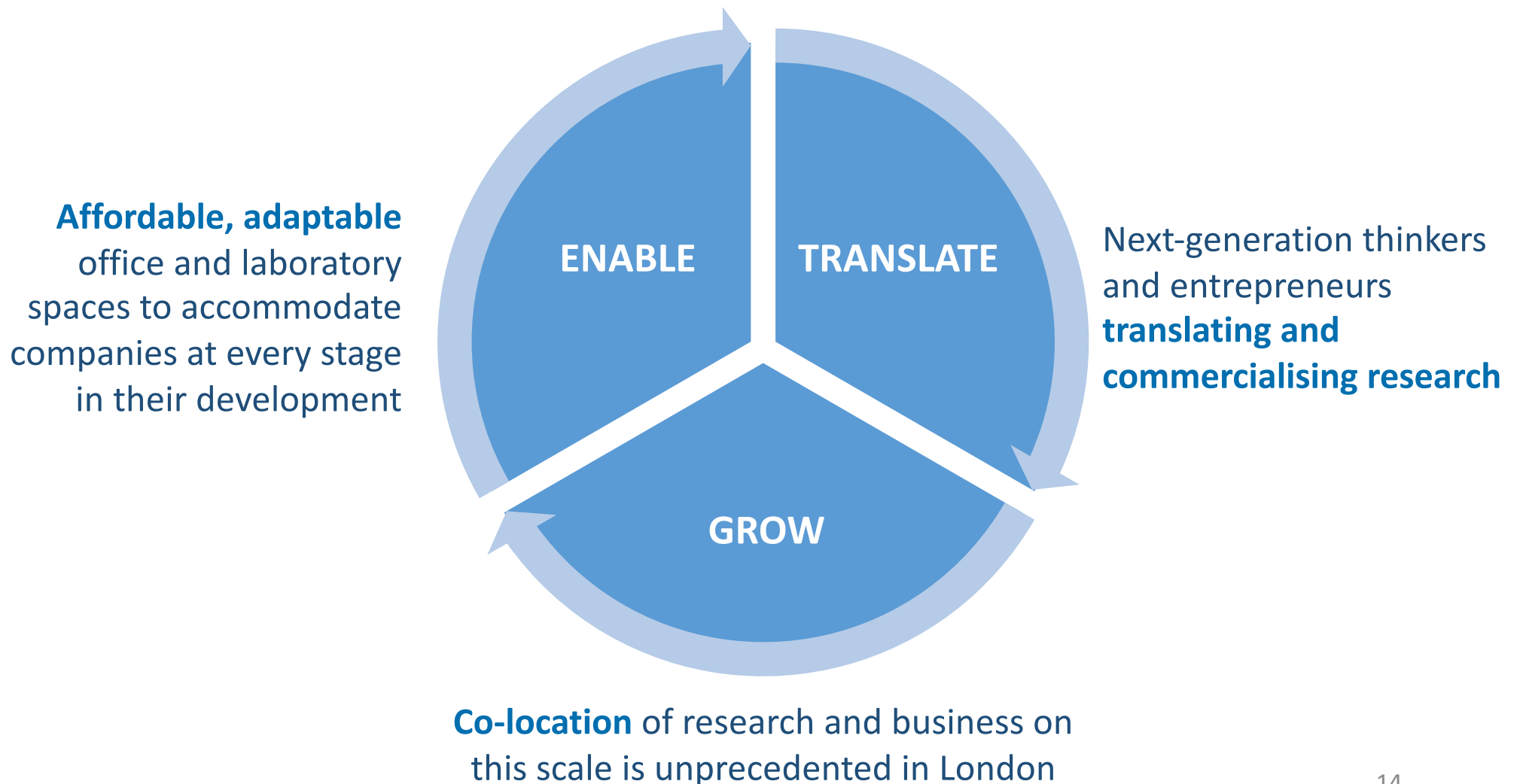
- ☐ Access to commercial challenges
- ☐ Sources of data
- ☐ Routes to market application
- ☐ Alternative funding
- ☐ Student engagement



## Partner

- ☐ Access to talent
- ☐ Leading edge knowledge
- ☐ Multidisciplinary expertise
- ☐ Technical capabilities & equipment
- ☐ Open collaboration







# Early Occupiers - Centre House and Forest House



- Collaborative creative & media campus with film, digital, graphic design, fashion, food and NGOs
- 60,000 sqft; 50+ companies on site; 90%+ occupancy



- White City company since 2012
- Expanded into I-HUB level 1
- £5m in UK revenue to Dec 2017
- 100 employees



- Based in Forest House since 2015
- 82 employees
- IPO June 2018





## Type

Level 5 - 11  
Office & Dry  
Lab

Level 4  
Co-working  
Space

Level 2 - 3  
Office & Wet  
Lab

Level 1  
Fitted Office &  
Wet Lab

G and LG  
Incubator



## Target Business

- Large corporates
- Research institutes

- Non-lab business
- Entrepreneurs

- Technology based business in the lab

- Mid-stage and scale ups

- Early stage and start-ups



# Translation & Innovation Hub (I-HUB)

**First purpose built co-location building** at the White City Campus that provides 185,000 sqft bespoke offices and laboratory facilities (vertical mixed-use development)

Creates a community of start-ups, spin-outs, major corporations, high growth technology companies in West London

**Space to think, room to grow** in unique **collaborative environments**

- White City Incubator
- Central Working
- Commercial lets to 'Allied Enterprises'



## A hub for innovation and entrepreneurship

- A subsidiary of Imperial College London
- Managed by Imperial Innovations Limited, part of IP Group plc
- Incubator at I-HUB provides office and lab space for early-stage companies
- Currently houses 14 companies and 10 virtual clients
- Clients have raised over £81.5 million in funding since 2016 (total of £681 million since 2006)

## Incubation support and training

- Shared labs model
- Management support services
- The White City Investors Programmes
- Accelerator programme - Innovation Academy
- Industry focussed network events and workshops





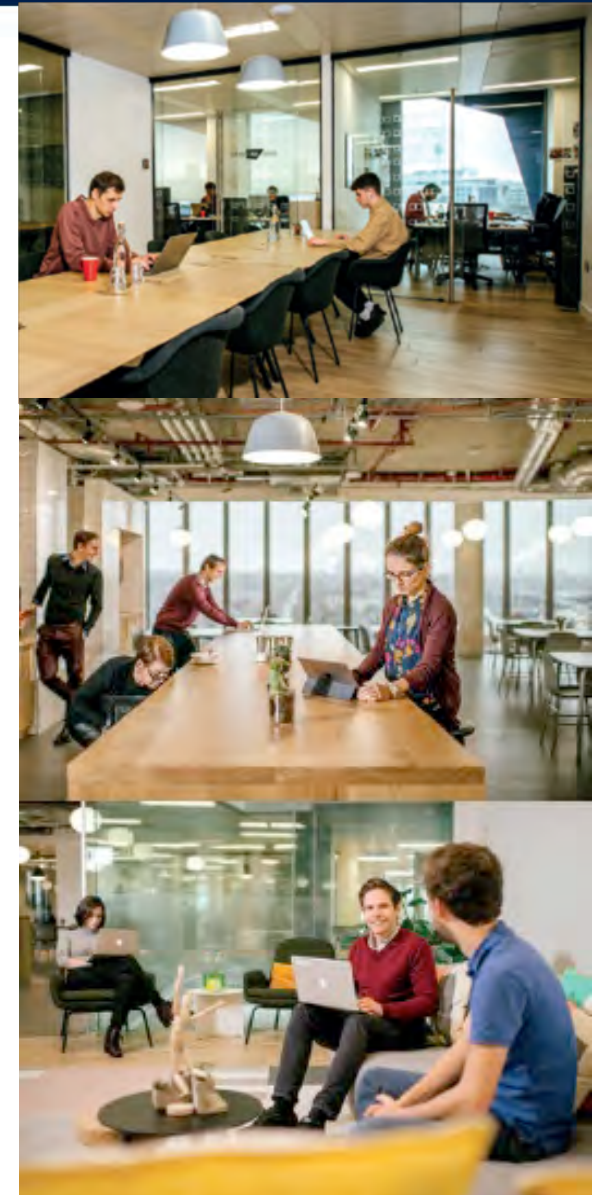


CENTRAL  
WORKING

# Central Working

College's first **co-working space** targeted at West London's tech and enterprise community, in collaboration with Central Working

- Access to Imperial's extensive network and corporate partners
- Enabling businesses to grow within a network of nine sites across the UK (Bloomsbury, City, Farringdon, Paddington, Shoreditch, Victoria, Manchester, Cambridge and White City)





CENTRAL  
WORKING

# Central Working Clients

- 36 companies
- 91% occupancy
  - Start-ups
  - Scale-ups
  - Project teams
  - College links
  - Corporates



AIRBUS



BRAITHORN  
GLOBAL RETAIL SOLUTIONS

CROSS MEDIA



Defence and Security  
Accelerator

Félix

Nestlé

Cutting Edge Group



macusoft

RIZER

## Scaleable Business Award Winners:

- Combined support worth £250,000 – including 1 year free office space
- Assistive technology, treating pollution, clean drinking water in remote areas, AI in healthcare, scientific marketplace

BrightSign

ThinAir

OMtv



# I-HUB: Grow on Laboratory Space

- MiNa Therapeutics: first company to graduate from White City Incubator
- Precision Robotics: Imperial College Hamlyn Centre spinout
- Arborea, DNAe, CyBio





# I-HUB: Flexible Model (Cat A)

- Avado: digital-first learning and training
- Accelerate Places community
- DnaNudge: develop technologies that use DNA tests to nudge consumers towards making healthier choices
- ICON: patient-focused research company



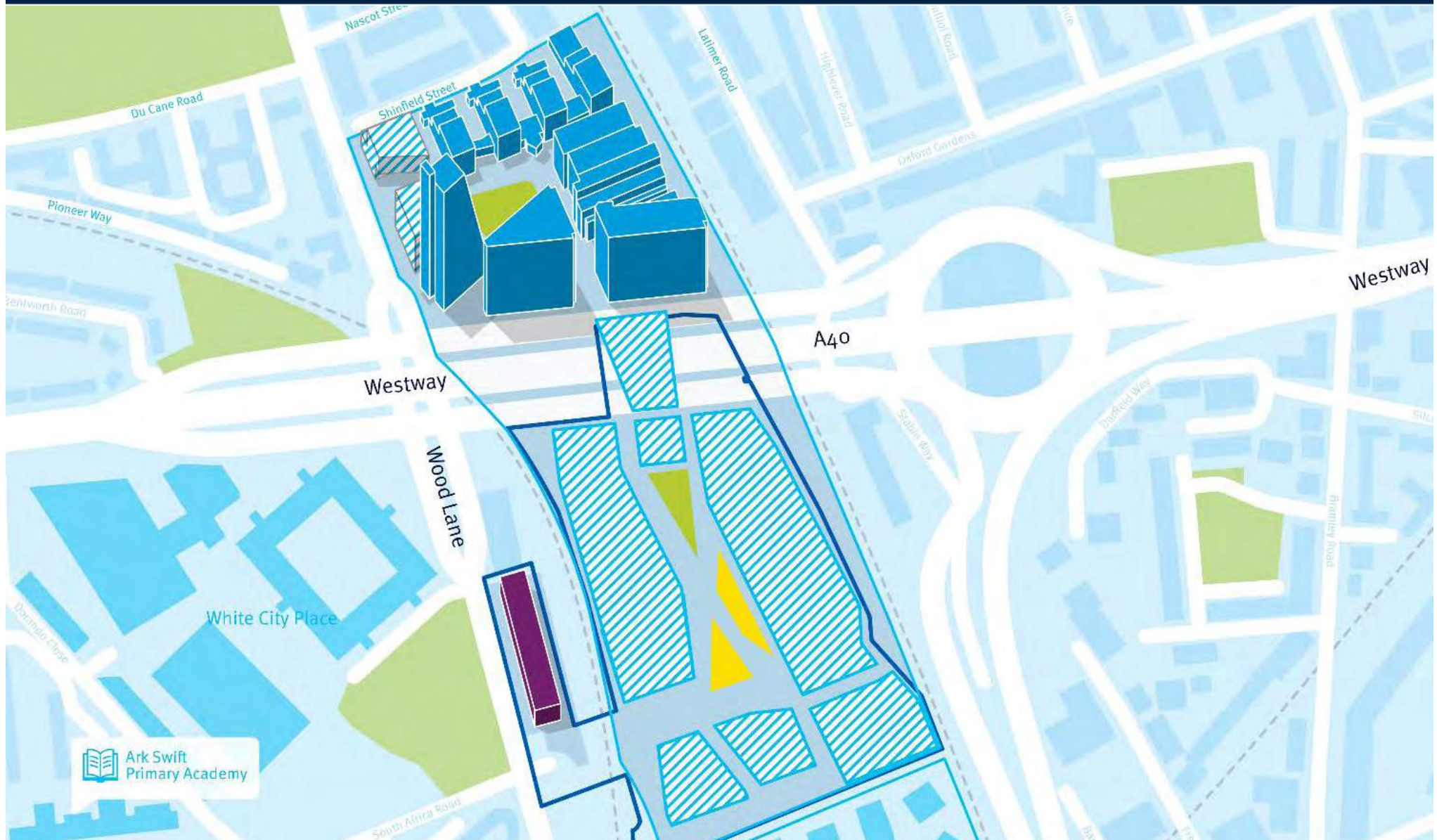
# I-HUB: Laboratory Floors (Shell & Core)

- 18,000 sqft floors
- Unique ready to fit out offering
- Significant commitment for incoming tenant – specialised market with limited pool of targets, must have significant alignment with Imperial mission





# White City Ecosystem: Future



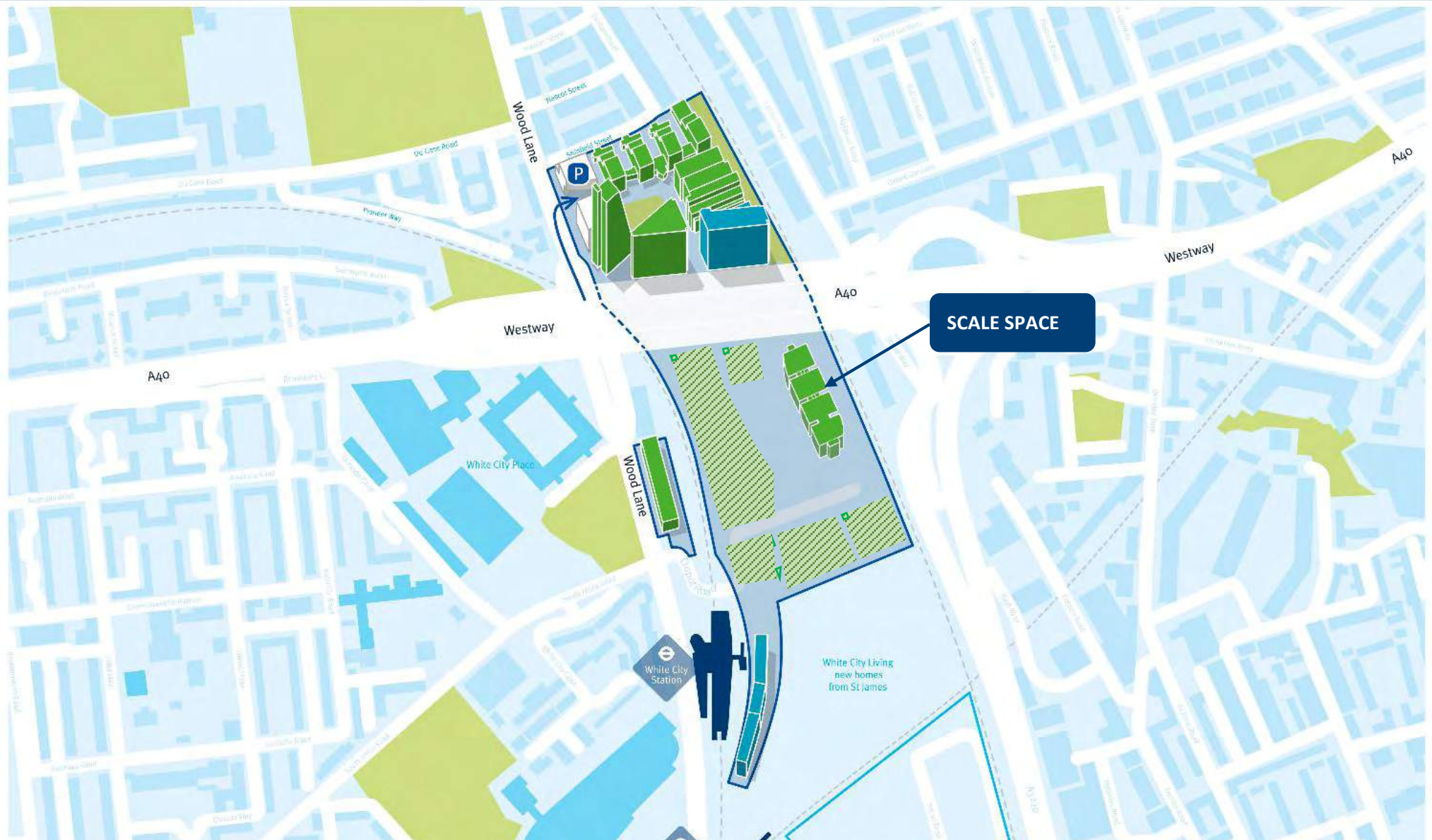


# Scale Space Development

- New proposal for **Scale Space** comprising 243,000 sqft
- Designed to house **technology and digital scale up** companies in suites from 5,000 to 25,000 sqft
- **Modular construction** to reduce delivery time and build cost, enabling space to be offered to clients at **competitive rents**
- Common amenity services will include **food & beverage** and **event space** for tenants and visitors
- Building 1 scheduled for completion Q4 2019



# White City Campus: Scale Space





# Supporting the Enterprise Journey



## I-HUB



## White City Foundry

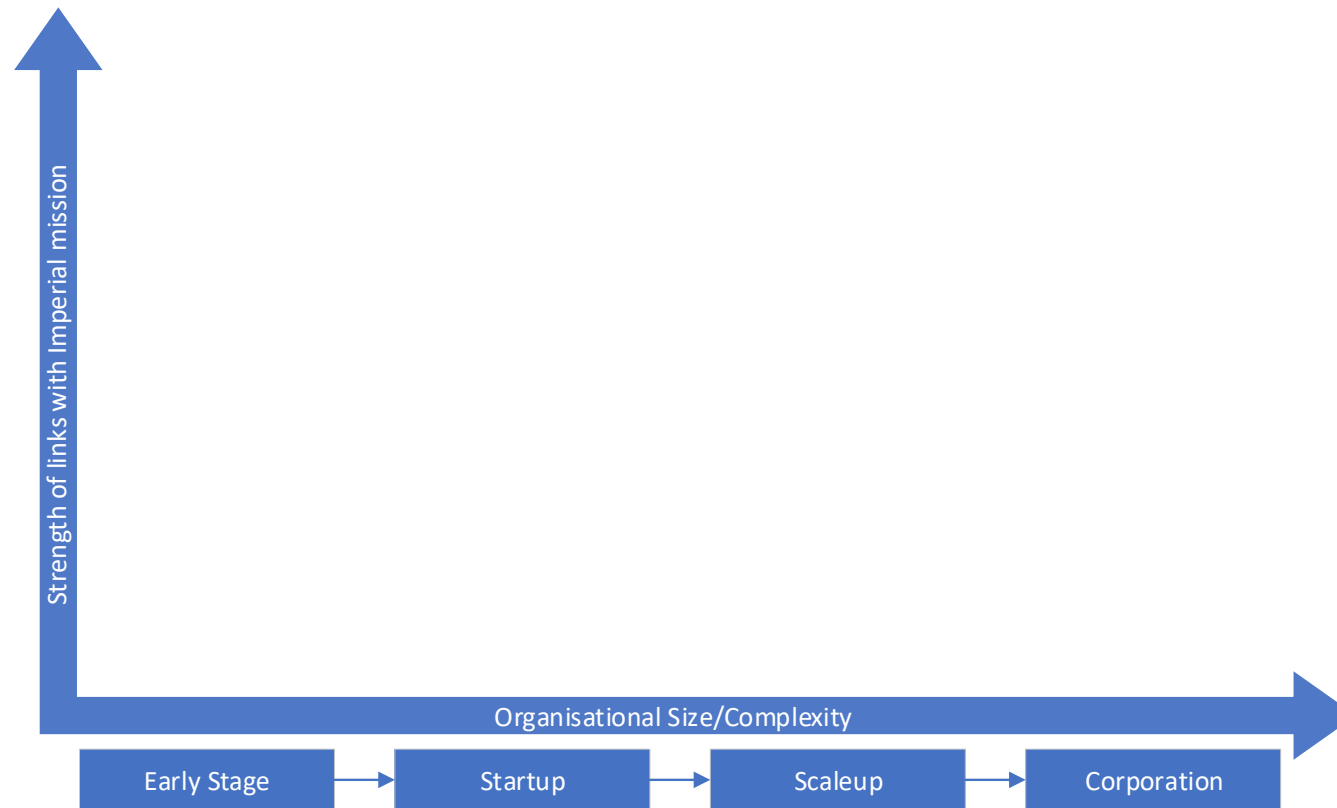


UK Media Platforms

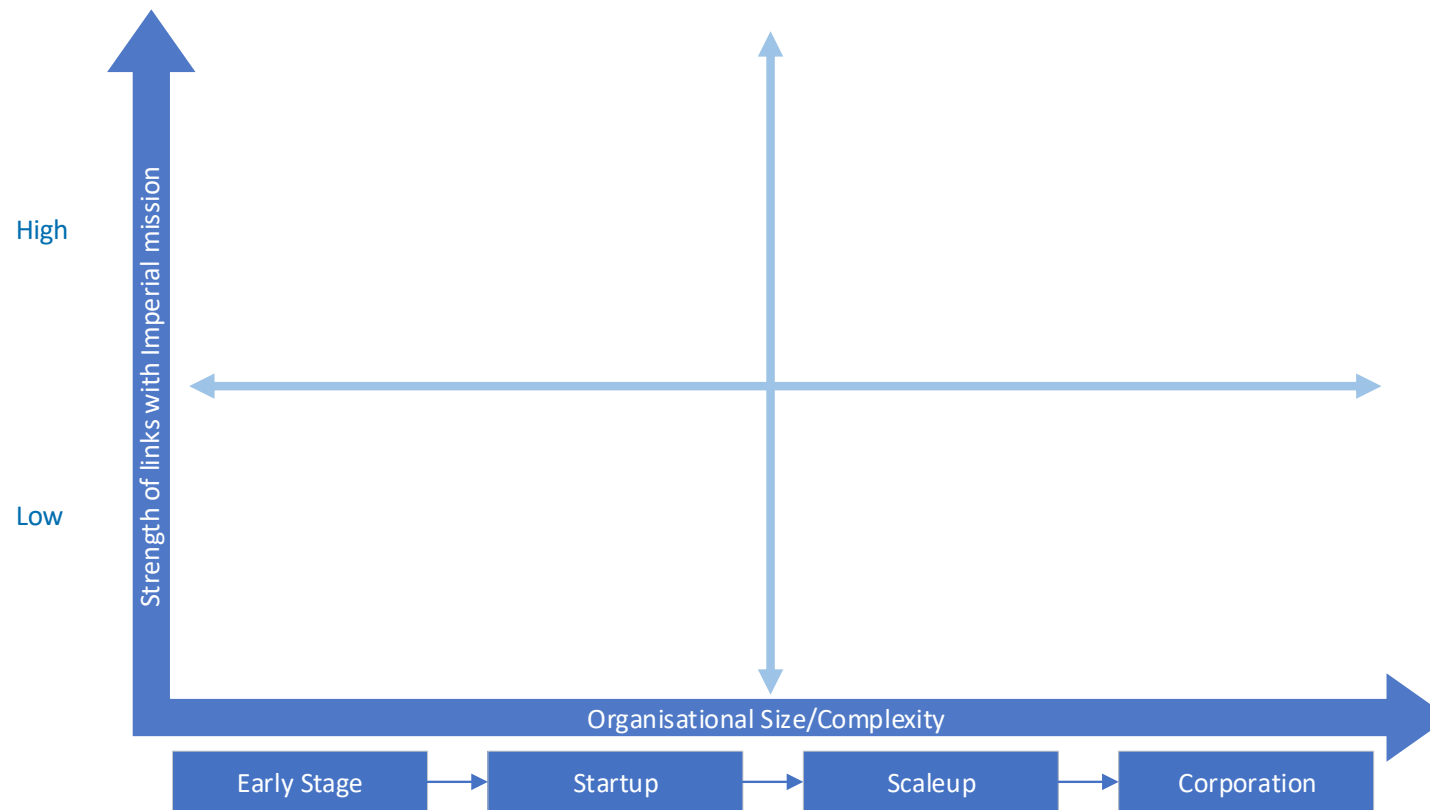
Autolus



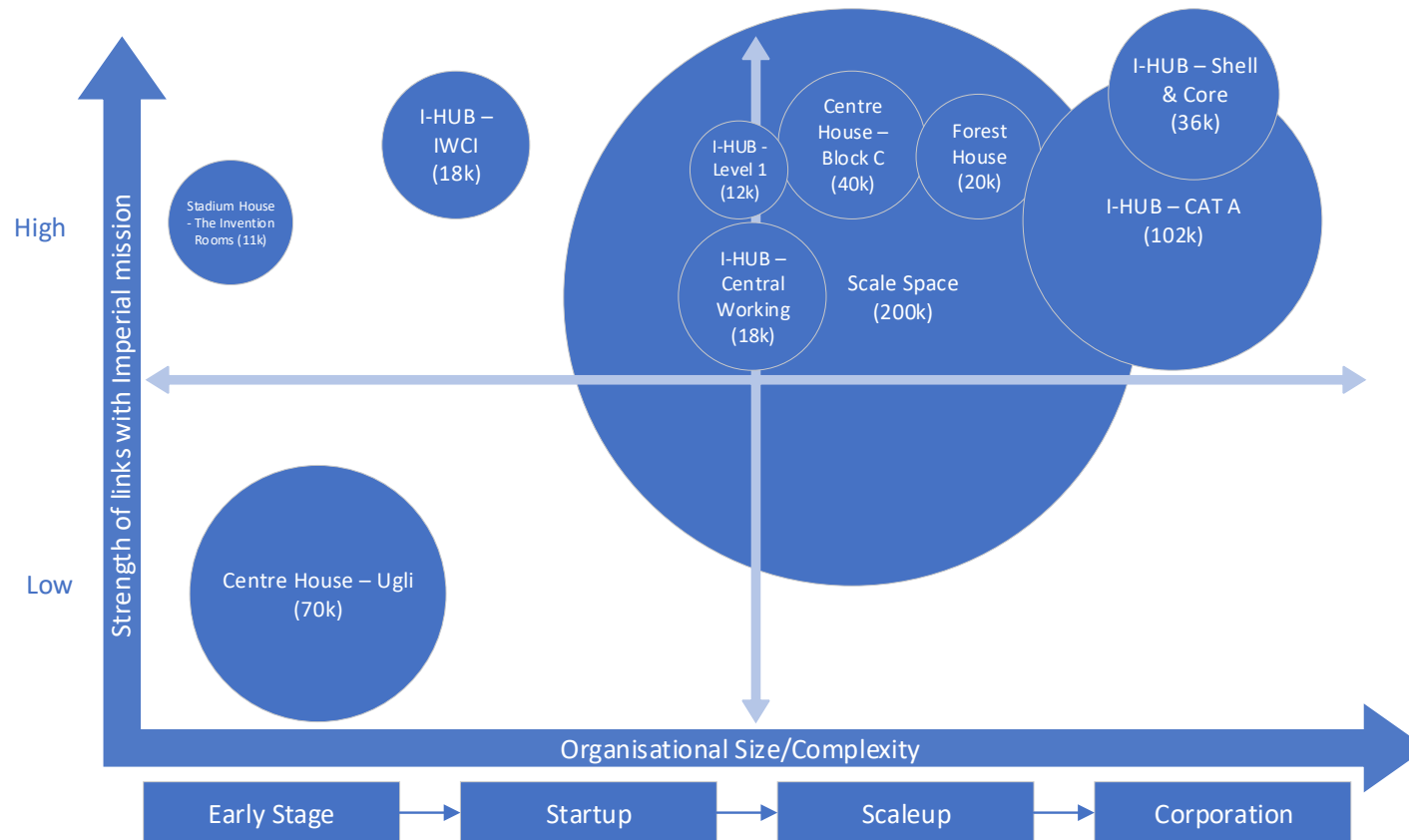
# The Enterprise Journey



# The Enterprise Journey

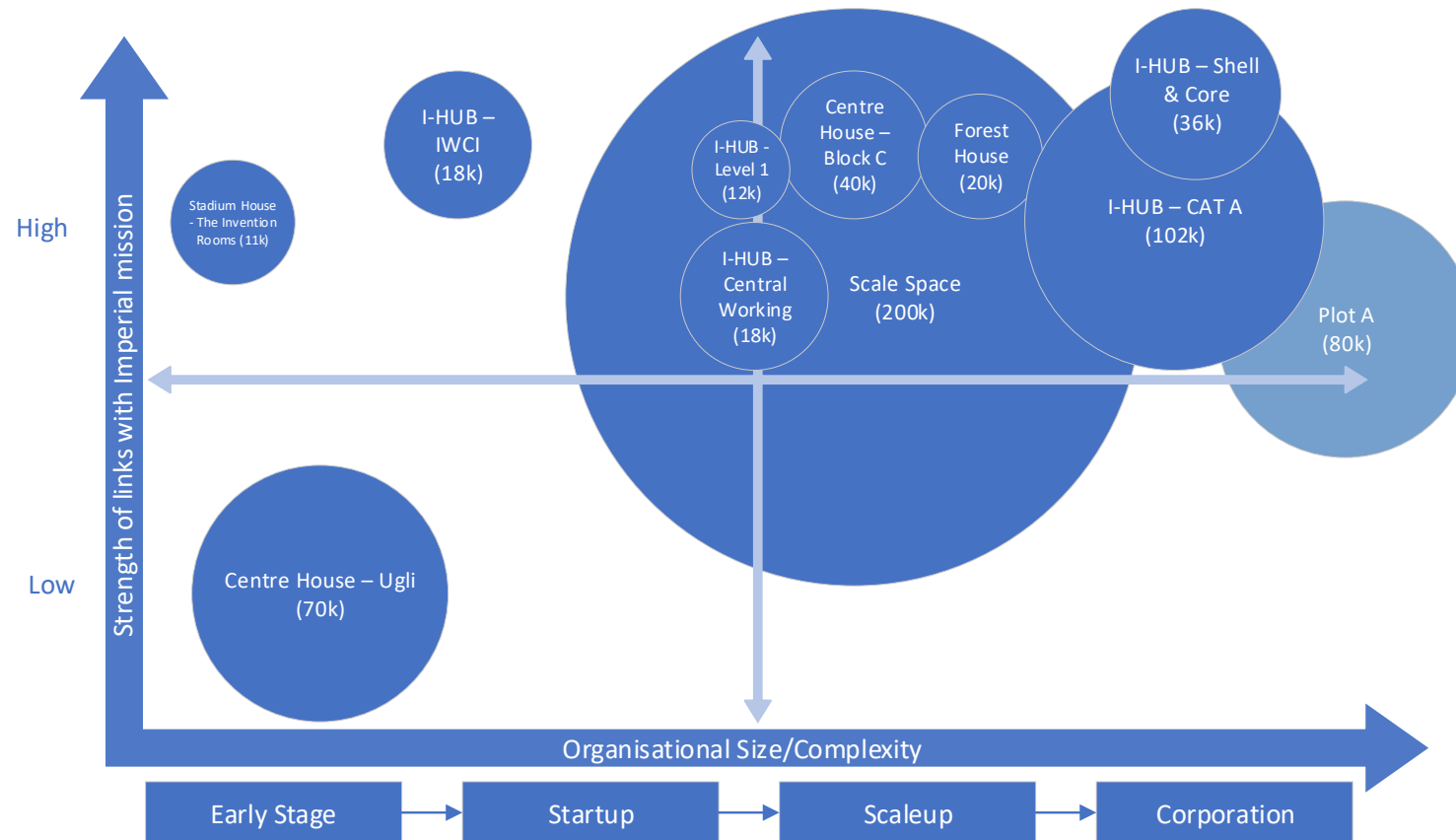


# The Enterprise Journey

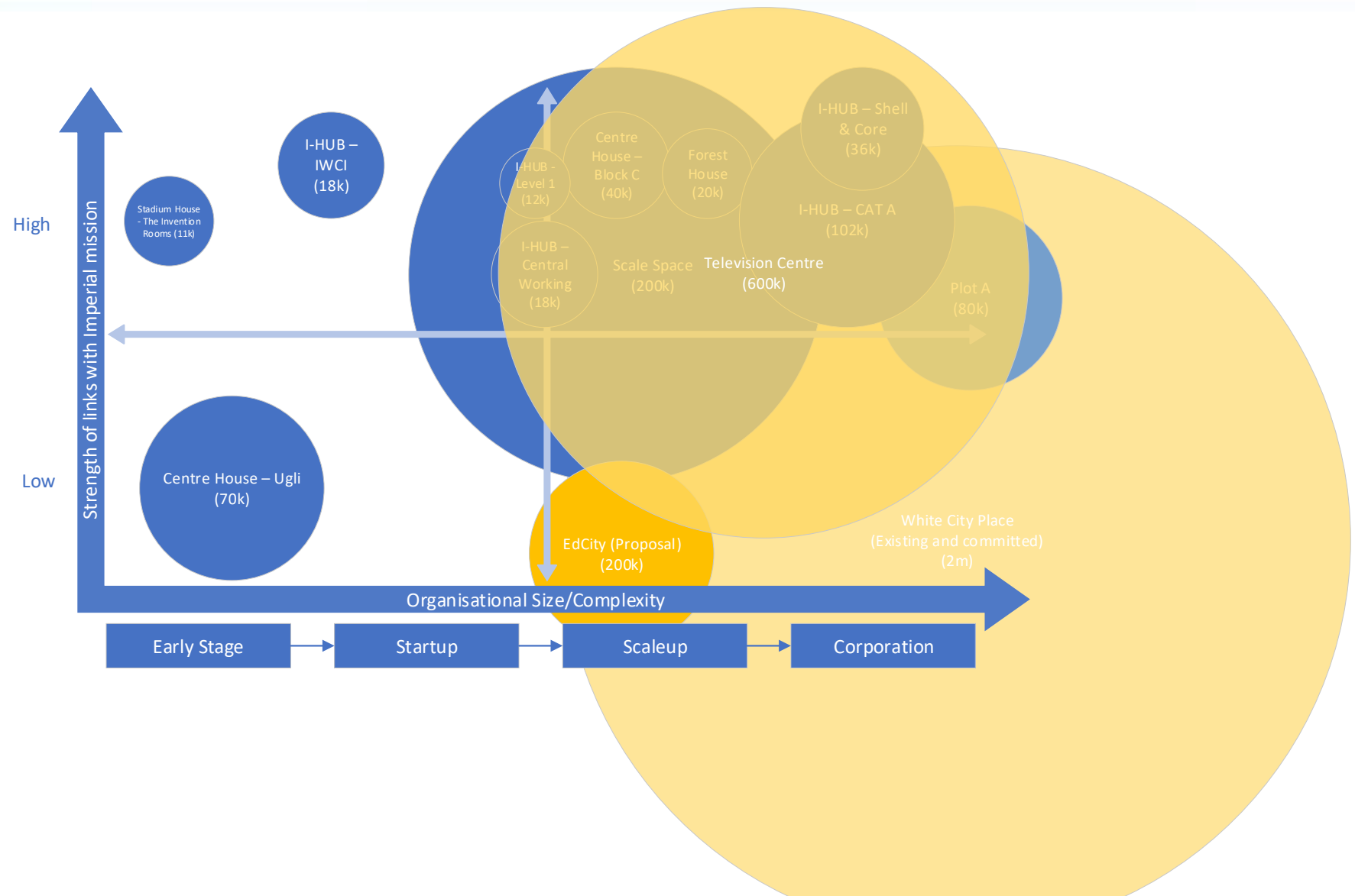




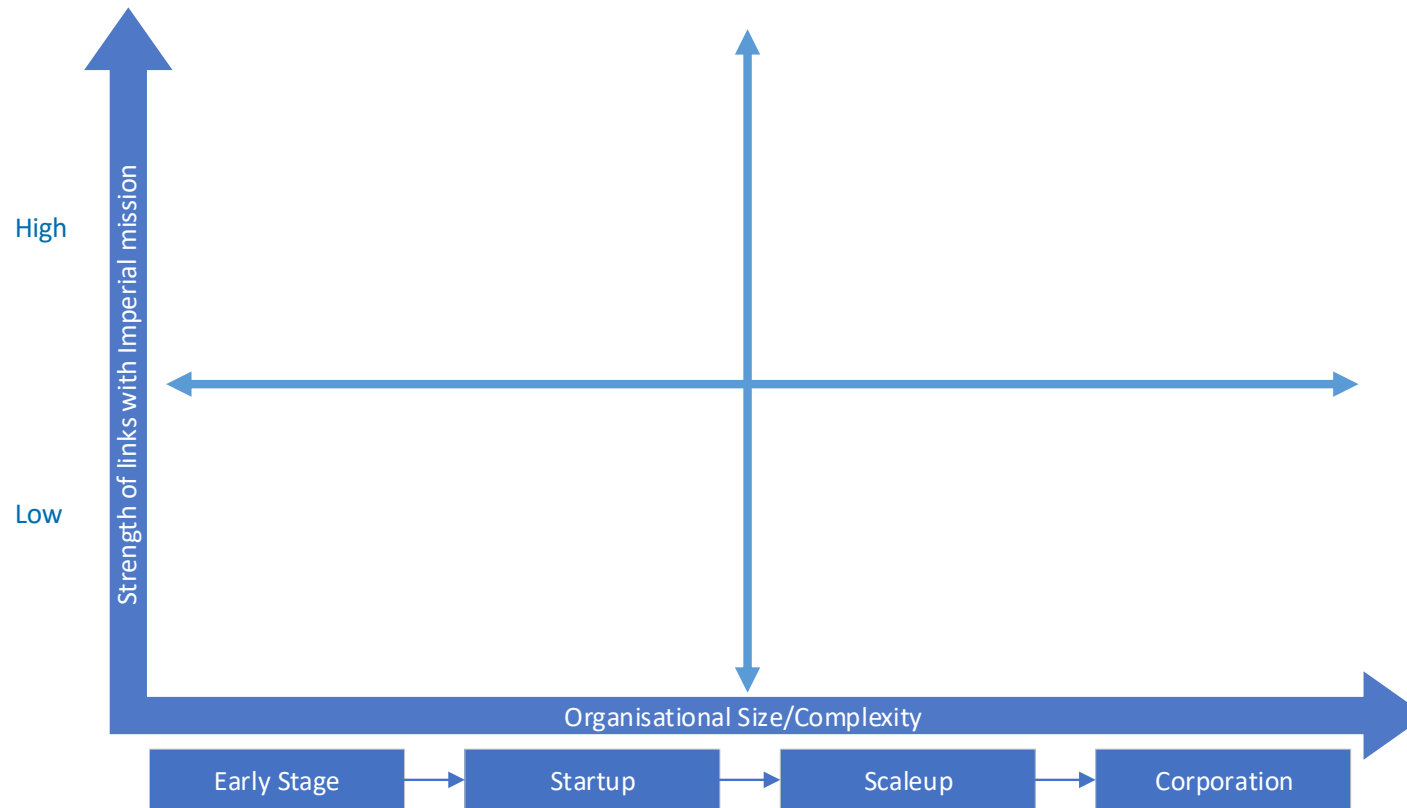
# The Enterprise Journey



# The Enterprise Journey

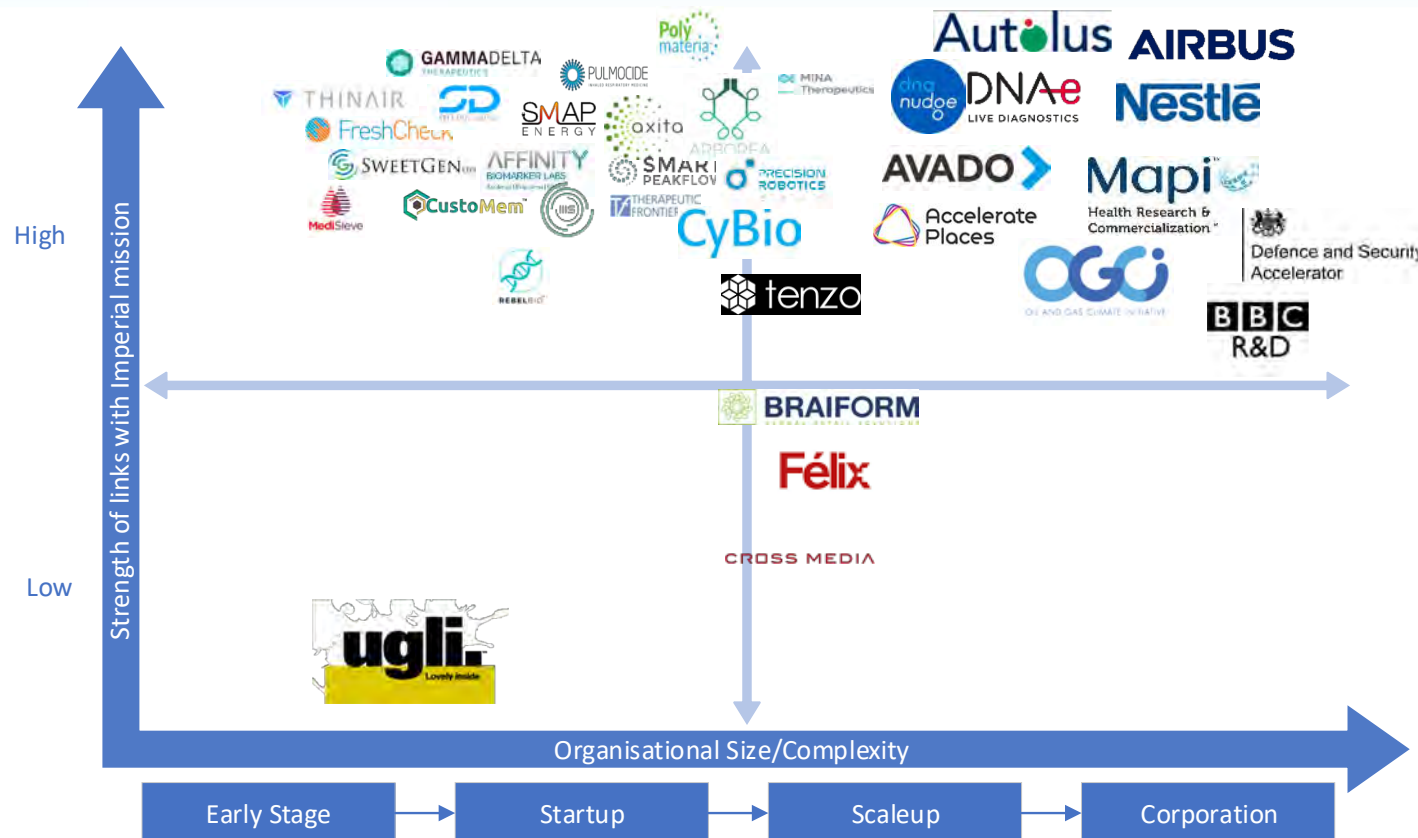


# The Enterprise Journey





# The Enterprise Journey





# Imperial College White City Campus: London's new innovation district



<http://www.imperial.ac.uk/white-city-campus>

<http://www.imperial.ac.uk/thinkspace>