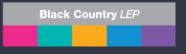


### **National Brownfield Institute**

Prof Mohammed Arif Head of School, Architecture and Built Environment







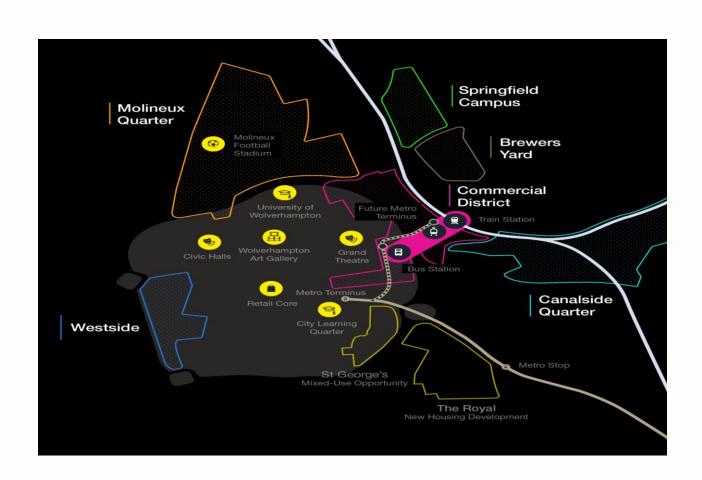






#### Strategic Approach

- Adjacent to game-changing city centre developments
- Huge opportunity to influence construction methods including 1,000's of sustainable new homes at Brewers Yard and Canalside Quarter, 1 million sq ft of new office space at Commercial District
- Great connectivity
- 5G Application Accelerator at UoW Science Park
- Strong Developer and Investor interest
- The next stage in establishing
   Springfield as a Construction Catapult





#### **Vision**

A world class construction, regeneration and built environment cluster offering teaching and skills development, cutting edge research and innovation, and business led creativity driving the circular economy.





#### **Centre for Sustainable Construction and Circular Economy**





#### **Springfield Campus**

- Thomas Telford UTC
  giving young people the skills required by the
  construction industry
- Elite Centre for Manufacturing Skills

   a flagship training facility enhancing productivity
   in the High Value Manufacturing sector
- School of Architecture and Built Environment supporting skills in architecture, construction, civil engineering, building control/services, facilities management, quantity surveying, planning, construction management, housing and commercial





#### **National Brownfield Institute Vision**

"Create a world-class brownfield regeneration industry cluster through multi-sector partnership, based at the University of Wolverhampton's Springfield site."



# Realising the vision

The multi-million pound National Brownfield Institute (NBI) will realise the city's vision of becoming an International Centre of Excellence in brownfield regeneration, sustainable construction and circular economy.

- Securing city's position at the forefront of construction and brownfield development nationally and internationally
- Bringing new skills, innovative technologies and new policies for remediation and regeneration of brownfield sites
- Contributing to the 'levelling up' and green growth agendas





## **Transformative Impact: Students**

- New Courses/modules in Brownfield Remediation
- WLV Graduates Uniquely Qualified For Brownfield Related Jobs
- Access to Industry and Cutting Edge Knowledge
- Potential for Internships and Placements
- Access to Industry Leaders in Brownfield through Guest Lectures



## **Transformative Impact: Research**

- Unique Research Facility in the World Addressing Key Issues in
  - Soil Testing Remediation
  - Groundwater Testing and Remediation
  - Social and Economic Factors in Brownfield Remediation
  - Planning and Decision Support Systems Development for Brownfield Development
  - Nationwide Database and Digital Twin for Brownfield Sites in the UK



### Transformative Impact: Knowledge Exchange/Transfer

- Support Local and National Enterprise with Brownfield Related Expertise
- Act as National Knowledge Hub for Brownfield Development
- Policy Institute to Influence Government Brownfield Policies at National, Regional and Local Levels
- Extensive Knowledge Transfer
  - Reskilling
  - Upskilling
  - Retraining



## Transformative Impact: Place

- Promote Brownfield Related Industries in WM Region.
- Establishing WM as "Silicon Valley" of Brownfield Development
- NBI to Facilitate Development of Local Economy and Promote Enterprise in the Area
- Job and Expertise Creation in the Region
- Brownfield Know-how to Become Key Regional Export to the World



#### **NBI** Delivery

**NBI Vision NBI Outcomes NBI Outputs Activities Functions** Policy More brownfield developed Locality factors 1. Development of brownfield More efficient processes SME Involvement sites maximised. Policy & Strategy Fiscal incentives Promotion of brownfield Skills & Knowledge Improved data quality Land Registers 2. Better access to relevant Promotion Comprehensive data source high-quality brownfield data. **Brownfield Legacy Project** Technologies Create a world-class Processes brownfield regeneration Technology enablement Risk Mgt industry cluster through 3. Increased use of advanced Research & Social Impact multi-sector partnership, technology enabling Independent brokerage Development brownfield development. based at the University **Procurement** of Wolverhampton's Applied research Financial stimuli Springfield site. Sustainability More homes and jobs 4. Greater economic growth Skilled workforce & graduate through the redevelopment of employment Enhanced analysis brownfield sites. **Engaging SMEs** Data Labs CPD Commercial Campus identity **Testing & Certification** Services 5. Springfield Campus as a **Digital Offer** construction centre of Financially independent excellence. **Events** Focussed investment Knowledge transfer

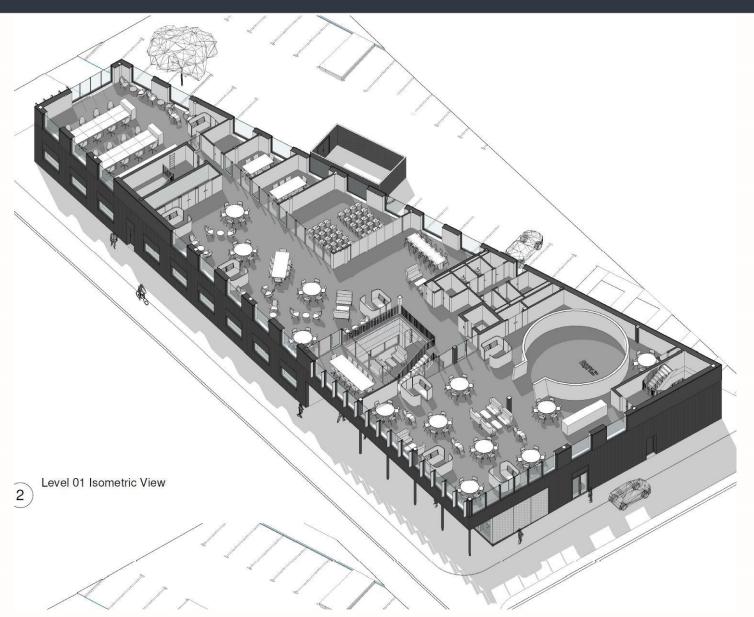


## **Chemical NBI**





# Digital NBI



## **Discussion**