STARTING SOON…
Horizon Europe - Decarbonisation of the Built Environment Community Building and Brokerage Event
25th January 2024

Opportunities in Horizon Europe: The Energy Series
#EnergyHorizon

Host: Dr Jane Watkins
Regional Lead - Europe
Introduction

1 Why are we here?

- What is Horizon Europe?
- What is the Built4People Partnership and the ‘Call Topics’?
- Who (UK and international) is interested in collaborating?
- What support is there to help me start building a Horizon Europe project consortium?
Introduction

Agenda

09:30  Welcome & Aims of the Day – Jane Watkins
09:40  Introduction & Call Topic Overview – Built4People Partnership, Alain Zarli
10:00  Decarbonisation of the built environment Landscapes (5 mins each) + Q&A
  Denmark – Christina Grann Myrdal, Head of Innovation at We Build Denmark
  Sweden – Anna Land, Programme Manager at The Swedish Centre for Innovation and Quality in the Built Environment
  UK – Mat Colmer in Construction Team at Innovate UK
10:30 (5 min) – Break.
10:35  How to get ready for Horizon Europe and find the right partners? Conall McGinley
  National Contact Point for Energy
10:50 (10 min)  Case Study – Simeon Oxizidis, Proposal Manager at Integrated Environmental Solutions
11:00 Q&A
11:10  Pitching Session
11:40  Closing Remarks
11:45  Meeting end
3 House Keeping

- Microphone off unless speaking please.
- Please post Q using the Q&A FUNCTION.
- Save the zoom chat – we will not be sharing this.
- Please message Michael Foster in the Zoom chat if you are having technical issues.
- The webinar is being recorded and will be shared with the slides afterwards.
Introduction

4 Upcoming Opportunities

OPEN - £700 European Travel Awards
Introduction

5 Enjoy!
Alain Zarli, Built4People Partnership
ECTP Secretary General
B4P Management Team
Introduction to the Built4People (B4P) Co-Programmed Partnership

Alain ZARLI
ECTP Secretary General
B4P Management Team

January 2024
European Construction, built environment & energy-efficient buildings Technology Platform

Continuously nurturing an integrated vision, roadmap and development approach on challenges such as climate change, resources, efficiency & sustainable development for the Built Environment (buildings, infrastructures, utility networks...) and Construction sector.

- ECTP: AISBL legal entity, based in Brussels
- 155 member-organizations from the Construction sector and other sectors from the whole supply chain of the Built Environment.
- Main mission: develop new R&D&I strategies to improve competitiveness, meet societal needs & take up environmental challenges.
ECTP with 6 thematic Committees

**Infrastructure**
AN ECTP COMMITTEE

**Mobility**
AN ECTP COMMITTEE

**Heritage**
AN ECTP COMMITTEE

**Regeneration**
AN ECTP COMMITTEE

**Materials**
AN ECTP COMMITTEE

**Sustainability**
AN ECTP COMMITTEE

**Built Environment Decarbonisation**
AN ECTP COMMITTEE FOR INNOVATIVE BUILT ENVIRONMENT

**Digital Built Environment**
AN ECTP COMMITTEE

**Built for Life**
AN ECTP COMMITTEE
### Influencing innovation and strategic research
- Participate in the definition of the European Strategic Research Agendas
- Interact with the Built4People Partnership Board
- Close links with key representatives from the European Commission
- Take advantage of ECTP’s strategic presence in the heart of Brussels

### Access to knowledge, resource and expertise
- Information on upcoming European funding calls and programmes
- Access to ECTP publications and research
- Contribute to technology transfer and research exploitation
- Participate in experts and Committees meetings
- Private access to a Collaborative Workspace (CWS)
- Access to the dataset of sectorial projects funded by the H2020, Horizon Europe and LIFE framework programmes

### Opportunities for networking, training & development
- Discount for participants in the ECTP Biennial Conference to disseminate project outcomes
- Seminars and workshops to discuss technical challenges and facilitate networking
- Meet potential partners for your research projects
A policy cross-cutting initiative, addressing buildings climate-neutrality but also broadly speaking sustainability, reducing resource intensity and increasing recyclability, taking into consideration other policies relevant to buildings, including the need to preserve our European Cultural Heritage.

Scope:
• Decarbonisation, sustainability and better living (Europe & beyond)
• Gather partners across the built env. value chain for a cleaner, safer, affordable, smarter, decarbonised & sustainable Built Env.

Aim:
Produce & deliver on the market holistic innovation
→ long-lasting transformations & behavioural change
→ deliver long-term goals set by the EGD

Approach:
• People-centric holistic innovation
• High quality architecture → low carbon, highly energy & resource efficient built env.
• Drive the societal and economic transition towards sustainability.

Coordination:
• EC: DG ENER Lead contact → co-creation process among 12 EC services responsible for the policies focusing on the BE: ENER.B2, B3, B5; RTD.D1; GROW.C1; ENV.B2; MOVE.B3; CLIMA.C1; CNECT.H5; EAC.D1, D2; EMPL.C3.
• Partners others than the EU:

https://built4people.eu
Built4People Partnership vision

**Link to macro-level objectives:**
- SDGs, Green Deal, OECD, World Bank, WEF, EU specific domain

**Sustainable Communities with affordable and clean energy. EU 2030 energy targets, (SDG 7, 11, 13)**
- Decarbonised construction & renovation
- Induce lasting improved quality of life for all in buildings
- Cost-effective high-quality renovation packages delivering healthy buildings
- Synergies with EU instruments targeting climate-neutrality of Europe

**EU technological sovereignty & materials security**
- Implementation of EU sustainable regulation frameworks
- Large scale demonstrators
- 80% reusable or recyclable materials
- Collaborative projects generating science-based data, knowledge and tools

**Competitive industry and sustainable production (SDG 9,12)**
- Increase of skilled workforce in the entire value chain
- Start-ups & SMEs demonstrating circular business models
- Creation of Construction Innovation clusters (10-15 in EU by 2027)

**Climate Action and sustainable consumption (SDG 12, 13)**
- Increased Demand and uptake of low carbon solutions
- Tools for training & certifications
- Actions to foster behaviour changes
- Co-creation process to ensure a user-driven approach

**Built4People Partnership vision**

**General level impacts**
- Healthy built environment and preserving cultural heritage
- Induce lasting improved quality of life for all in buildings
- Cost-effective high-quality renovation packages delivering healthy buildings
- Synergies with EU instruments targeting climate-neutrality of Europe

**Specific level outcomes**
- 80% reusable or recyclable materials
- Collaborative projects generating science-based data, knowledge and tools
- Large scale demonstrators
- Creation of Construction Innovation clusters (10-15 in EU by 2027)

**Operational level resources & actions**
- Synergies with EU instruments targeting climate-neutrality of Europe
- Collaborative projects generating science-based data, knowledge and tools
- Large scale demonstrators
- Creation of Construction Innovation clusters (10-15 in EU by 2027)
## 3 general objectives

### GO1
Generate holistic innovation in the built environment towards sustainability by 2027/28

### GO2
Revitalise the sector through decarbonisation and sustainability transition by 2030

### GO3
Induce lasting behavioral change towards sustainable living by 2030

## 10 specific objectives

### SO1
Develop holistic solutions that break “technological silos” in built environment, lower carbon and resource intensity and mainstreaming LCA-based approach

### SO2
Develop solutions that enable/increase interactions of building with networks or increase sectors integration

### SO3
Demonstrate profitability and job creation potential of new sustainable and circular business models

### SO4
Demonstrate sector decarbonisation pathways across all the players in the value chain

### SO5
Demonstrate industrialization potential and economies of scale, as well as applicability to a large share of the EU buildings stock/infrastructure

### SO6
Develop strategies, methods and tools to adapt skills, culture and way of working to the opportunities arising from the new solutions

### SO7
Engage the whole value chain as well as policy makers and civil society in the design, development and implementation of the new solutions

### SO8
Orienteate and demonstrate innovation to achieving outcomes for users in terms of functionality, comfort, convenience, accessibility, health etc

### SO9
Demonstrate safeguarding and promotion of architectural elements that represent cultural / historical value and heritage

### SO10
Develop strategies, solutions and tools to reduce time to market of the new technologies

## 10 operational objectives

### OO1
Cost-effective multi-functional and/or prefabricated holistic renovation packages

### OO2
Set of smart-grid ready and smart-network ready buildings acting as active utility nodes

### OO3
Tools and applications to facilitate a life cycle-based approach

### OO4
New design models for buildings, infrastructure, public spaces and efficient and resilient cultural heritage

### OO5
New protocols and approaches to zero-carbo construction and retrofitting and circular and bio-based economy

### OO6
New services from home and in the community, incl. solutions for healthier indoor and outdoor environment

### OO7
New solutions and tools for public and private (green) as well as new business/financing/risk mgt models

### OO8
Solutions for smart and responsive buildings exploiting an improved knowledge of user experience (BaaS)

### OO9
EU-wide open databases and digital Data Management Platforms on the performance of the built environment

### OO10
Innovation clusters /ecosystems integrated with the construction value chain and other sectors
**Built4People - Summary of KPIs in MoU**

### KPI’s on general objectives

**GO1**

**Generate holistic innovation in the built environment towards sustainability**

1. R&I investment in the sustainable built environment area catalysed by the partnership
2. # innovative products/services/processes linked to sustainability that are catalysed by the partnership and number of jobs created
3. Contribution to the successful deployment of relevant EU instruments and frameworks
4. # training programmes developed for the sustainable built environment

**GO2**

**Revitalise the sector through decarbonisation and sustainability transition**

5. Energy savings (MWh)
6. GHG emission reduction (tCO2e) / Pollution reduction
7. Share of reused/recycled materials used in construction (%)
8. Share of buildings designed and constructed based on a life cycle approach.
9. # buildings with on-site RES production
10. # of workers trained on working methods and tools in the fields covering the B4P objectives

**GO3**

**Induce lasting behavioural change towards sustainable living**

11. Share of the EU population living and working in green neighbourhoods
12. # of private and public building owners with sustainable behaviour in their building stock

### KPI’s on specific objectives

**SO1**

13. # demonstrated innovative solutions and packages for sustainable construction and renovation

**SO2**

14. # demonstrated innovative solutions for the sustainability of the built environment value chain

**SO3**

15. # innovative services developed and demonstrated

**SO4**

16. # living labs established and involved in the partnership’s projects

**SO5**

17. Total floor area and # buildings (residential or non-residential) directly involved in the partnership’s projects demonstration activities

**SO6**

18. # and type of heritage buildings involved in/enhanced by the partnership’s projects, in line with the safeguarding of the historical environment and architectural values of the building stock

**SO7**

19. # building occupants and users involved in the partnership’s projects demonstration activities

**SO8**

20. # people trained across the whole value chain in the deployment of innovative sustainable technologies, systems and methods
### B4P Stakeholders Forum

A balanced representation of experts and stakeholders from across Europe to advise on priorities and suggest adjustments and re-orientations where necessary
- ≈200 persons (or more) meeting
- At least once per year
- Besides B4P representatives, a focus on involving of interested stakeholders

### B4P Partnership Board

Main forum for dialogue and steering to reach the objectives set out in the MoU
- ~60 representatives, 3-4 annual meetings, co-chaired by EC and non-EC partners
- Representatives of partners: EC (all involved DGs), ECTP and WBCB
- Observers can join upon invitation

**Ad hoc request for input and support on:**
- SRIA
- Draft call topics Work Programme
- Additional Activities Plan
- KPIs (informal subworking group)
- Innovation clusters (informal subworking group)
- Stakeholders Forum

### B4P team

Coordination and operational management and preparation of meeting and support in deliverables and B4P Partnership’s activities
- Representatives from ECTP and WCBC
- Currently: Alain Zarli, Anastasiya Yurchyshyna, Stephen Richardson, Laura Pallares

### Other EU-level initiatives

Aim to cooperate and achieve synergies in overlapping domains
- Representatives from other co-programmed or co-funded Partnerships & Missions, or from relevant research and innovation initiatives

### State Representatives Group

Advise and support the achievement of the B4P objectives and ensure complementarity with national policies, priorities and programmes and provide information or make proposals to the Partnership Board
- Representatives from Member states and associated countries (including from SET-Plan IWG5)

(operational alignment between management teams where relevant)
• **20 confirmed Countries**
  - Austria
  - Belgium
  - Czech Republic
  - Denmark
  - Estonia
  - Finland
  - France
  - Germany
  - Hungary
  - Ireland
  - Italy
  - Luxembourg
  - Malta
  - Netherlands
  - Poland
  - Portugal
  - Slovenia
  - Spain
  - Sweden
  - Turkey

• SRs invited as observers in the B4P PB (2022, cont. in 2023):
  - **Annett KUHN (Germany)** – Chair of the SET-Plan IWG (5) on energy efficiency in buildings
  - **Annabelle RONDAUD (France)**
    - FR holding the rotating presidency of the European council Q1-Q2 '22
    - Overall interesting to consider linking (to some extent) one observer to the MS holding the presidency of the Council

- 20 confirmed countries (@01/01/2024)
  - UK ongoing
  - New countries can join at any time
• Objective:
  • Advise and review on the priorities to be addressed, in line with the SRIA and the Horizon Europe strategic planning
  • Provide with suggestions & recommendations for adjustments or re-orientations to the PB, where and when necessary
• Members:
  • should reflect a balanced representation of experts and stakeholders from across Europe within the scope of the priorities of the European Partnership
    • including e.g. from academia, industry, SMEs, end-users, non-governmental and civil society organisations, stakeholder associations and regulatory bodies

→ **objective is to create a strong community around B4P!**
  • ECTP & WGBC affiliated entities, MS/AC via SRG...
  • DG ENER, ECTP, WGBC media channels (News, ...)
  • Participants through European associations (not affiliated): CECE, EUREC, UIPI,...
  • ...

• **1st B4P Stakeholder Forum meeting**
  • Online – Wed 1st June 2022
  • Attendance: 250+ registrations & 170+ joining live

• **2nd B4P Stakeholder Forum meeting**
  • Online – Tue 3rd October 2023
  • Attendance: 243 registrations & 127 joining live
• Next B4P Stakeholder Forum:
  • on the 23rd of September 2024 – 13:30-17:30
  • @ SP’2024 (Sustainable Places) / Luxembourg, 23-25/09/24
  • Web site: https://www.sustainableplaces.eu
• Linking with SET-Plan
  • Exchange of information:
    • Through the B4P SRG
    • Through the IWG5-CSA in support to IWG5 activities
      • Working on common policy recommendations
      • Organising common events
      • ...

Smart PEBs
• Positive-energy Buildings / Blocks
• Producing on a **yearly basis** more primary energy than used.
• Bioclimatic architecture, advanced materials, ICT...

Energy-driven
Urban renovation
• Renovation wave
• Building Retrofitting
• Decarbonasition heating & cooling in Buildings
Built4People - Horizon Europe WP preparation

**SRIA**

- Member State and associated states

**1st draft Work Programme**
- Call topics description without budgets

**2nd draft Work Programme**
- Revised call topic description with budgets

**3rd draft Work Programme**
- Final draft call topics

**Final Work Programme**
- Published and open for participation

- Chance to materially influence call topics and way they have been elaborated
- Chance to give input on budget/final wording (no material changes possible)
- Final input - more of a sanity check
• Keep on the renovation needs:
  • Low-disruption renovation process / prefabricated solutions for EE buildings
  • with more industrialised processes (for construction or renovation, as well as deconstruction / reuse) + focus on circular renovation as well as principles of circular economy
• Improve the role / coordination of construction stakeholders value chains towards innovation in renovation
• Innovative design(s) and decarbonisation pathways for people-centric / people-inclusive new & renovated buildings
• Resilience of buildings towards changing climate / disruptive events
• A strong accent is continuously put on Digitalisation at every stage of the construction process - e.g.
  • BIM, DTs, Automation (including e.g. Drones, Robotics) to improve renovation & optimise maintenance in a twin transition (green & digital)
  • Increased use of LC data / data lakes to manage buildings, data validation / certification
  • Increased involvement of users in participative design, planning, management, renovation, of buildings and districts

Acknowledgement: not an official view from B4P Partnership!
Built4People - Horizon Europe WP - 2023

Cluster 5: Climate, Energy & Mobility

HORIZON-CL5-2023-D4-01-01: Innovative cost-efficient solutions for zero-emission buildings
Funding (M€): 10 / 5

HORIZON-CL5-2023-D4-01-02: Future-proofing historical buildings for the clean energy transition
Funding (M€): 9 / 4.5

HORIZON-CL5-2023-D4-01-03: Interoperable solutions for positive energy districts (PEDs), including a better integration of local renewables and local excess heat sources
Funding (M€): 8 / 4

HORIZON-CL5-2023-D4-01-04: Thermal management and energy optimisation of high energy demand IT systems equipment in tertiary buildings
Funding (M€): 6 / 3

HORIZON-CL5-2023-D4-01-05: Innovative solutions for cost-effective decarbonisation of buildings through energy efficiency and electrification
Funding (M€): 25 / 12.5

Legend:
- RIA
- IA
- CSA
- Global project

HORIZON-CL5-2023-D4-02-01: Innovative uses of lifecycle data for the management of buildings and buildings portfolios
Funding (M€): 10 / 5

HORIZON-CL5-2023-D4-02-02: Solutions for the identification of vulnerable buildings and people-centric built environment, and for improving their resilience in disruptive events and altered conditions in a changing climate
Funding (M€): 12 / 6

HORIZON-CL5-2023-D4-02-03: Demonstrate built-environment decarbonisation pathways through bottom-up technological, social and policy innovation for adaptive integrated sustainable renovation solutions
Funding (M€): 2 / 2

HORIZON-CL5-2023-D4-02-04: Fast-tracking and promoting built environment construction and renovation innovation with local value chains
Funding (M€): 10 / 5

HORIZON-CL5-2023-D4-02-05: Supporting the creation of an accessible and inclusive built environment
Funding (M€): 0 / 0

Open: 4 MAY 2023
Closed: 5 SEPT 2023
**Built4People**

**Horizon Europe**

**WP - 2024**

**Cluster 5**

**Climate, Energy & Mobility**

**HORIZON-CL5-2024-D4-01-01:** Low-disruptive renovation processes using integration of prefabricated solutions for energy-efficient buildings

**Funding (M€):** 16 / 8

**HORIZON-CL5-2024-D4-01-02:** Smart grid-ready buildings

**Funding (M€):** 10 / 5

**HORIZON-CL5-2024-D4-01-03:** Alternative heating systems for efficient, flexible and electrified heat generation in industry

**Funding (M€):** 16 / 5.3

**Legend**

- **RIA**
- **IA**
- **CSA**
- **Global project**

**Open: 17 SEPT 2024**

**Closed: 21 JAN 2025**

- **HORIZON-CL5-2024-D4-02-01:** Industrialisation of sustainable and circular deep renovation workflows

  **Funding (M€):** 8 / 4

- **HORIZON-CL5-2024-D4-02-02:** Robotics and other automated solutions for construction, renovation and maintenance in a sustainable built environment

  **Funding (M€):** 8 / 4

- **HORIZON-CL5-2024-D4-02-03:** BIM-based processes and digital twins for facilitating and optimising circular energy renovation

  **Funding (M€):** 8 / 4

- **HORIZON-CL5-2024-D4-02-04:** Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy

  **Funding (M€):** 10 / 5

- **HORIZON-CL5-2024-D4-02-05:** Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts

  **Funding (M€):** 10 / 5
Built4People
- Horizon Europe
B4P Innovation Clusters (1/2)

Built4People Partnership vision

- Sustainable Communities with affordable and clean energy. EU 2030 energy targets, (SDG 7, 11, 13)
- EU technological sovereignty & materials security
- Competitive industry and sustainable production (SDG 9,12)
- Climate Action and sustainable consumption (SDG 12, 13)

General level
Impacts

Decarbonised construction & renovation

Healthy built environment and preserving cultural heritage

Induce lasting improved quality of life for all in buildings

Implementation of EU sustainable regulation frameworks

Increase of skilled workforce in the entire value chain

Start-ups & SMEs demonstrating circular business models

Tools for training & certifications

Actions to foster behaviour changes

Creation of Construction Innovation clusters (10-15 in EU by 2027)

Co-creation process to ensure a user-driven approach

Operational level
Resources & actions

Synergies with EU instruments targeting climate-neutrality of Europe

Cost-effective high-quality renovation packages delivering healthy buildings

80% reusable or recyclable materials

Implementation of Ambitious Renovation Wave action plan

Large scale demonstrators

Increasing Demand and uptake of low carbon solutions

Large scale demonstrators

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Co-creation process to ensure a user-driven approach
Two critical challenges for the Built Environment:

- Become more sustainable and resilient in face of climate change and biodiversity reduction
- Become more ‘people-centric’ to improve individual well-being and social cohesion

=> activate and nurture a network of B4P Innovation Clusters (B4PIC) and provide them with a package of supporting activities

=> make the bridge between the B4P partnership and the New European Bauhaus (NEB) initiative

- An innovation cluster (IC): a local or regional socio-technical ecosystem bringing together actors of the built environment sector where pools of capital, tacit knowledge, expertise, and talent foster the development of new innovations, their demonstration and their market uptake.

- A Built4People IC (B4PIC): a group of innovation-driven stakeholders, typically formed by one or two local/regional cluster(s), that engage in a maturing process to foster EU-scale, multidisciplinary and sustainable innovation in the Built Environment. This process is supported and monitored by the B4P Partnership partners (ECTP & WgBC)
B4PIC network is composed of the B4PICs that:
• have formally engaged in the B4P maturing process (i.e., signed the B4PIC Charter)
• assure the exchange of good practices
• foster collaboration among B4PICs

B4PIC Objectives
(3 General + 7 Specific)

NEB
Core values & working principles

• Beautiful
• Sustainable
• Together
• Participatory process
• Multi-level engagement
• Transdisciplinary approach

B4PIC addresses Six B4PIC success factors

(1) Whole value chain*
(2) Multi-objectives*
(3) Cross-sector
(4) Locally anchored with National and European outreach
(5) Cross-border
(6) Access to testbeds and demonstration spaces

*mandatory
B4PICs: Call for application information sheet

The Built4People Innovation Cluster Network is a powerful accelerator of sustainable innovation in the built environment.

The call for applications to become a Built4People Innovation Cluster is now open. Join a new network that will foster partnerships across Europe and give you access to resources, support and guidance.

What is a Built4People Innovation Cluster?

A Built4People Innovation Cluster (B4PIC) is a group of innovation driven companies.

These are typically formed by cement or local regional clusters that engage in a transformational process to foster EU cooperation and sustainable innovation in the built environment.

1. Identify the sectors that are part of sustainable construction and real estate.
2. Share business knowledge and experience.
3. Create innovative solutions and services to tackle societal challenges.

What is the purpose of the Built4People Innovation Cluster network (B4PIC network)?

The purpose of the B4PIC network is to support Innovation Clusters to become B4PIC through facilitating innovation opportunities and sharing resources (learning and experience).

The network will provide access to resources such as support and guidance on the existing hubs or clusters that wish to engage in, connect and scale sustainable innovations.

Together, the network will help to share progress and build the ambition of the Built4People network (B4PIC). To be able to continue, support and accelerate it, as well as ensuring the growth of the B4PIC network, Built4People needs to scale up by 2025.

Why joining a Built4People Innovation Cluster can be a game changer

TheBuilt4People network contributes to the drive of circular, and sustainable innovation across Europe.

By leveraging their collaborative ecosystem, expertise and innovation, clusters can propose local and regional solutions to tackle societal challenges.

1. Guidance and advice on innovation and business development.
2. Access to shared resources and knowledge.
3. Collaboration with other clusters, networks and organizations.

How to get involved

What:

The call is open to existing hubs and clusters across Europe seeking to build business and innovation partnerships. Please check the built environment.

Home:

Please visit Built4People network.

www.b4people.eu

www.horizon-2020-europa.eu

Contact:

info@b4people.eu

Supported by

Built4People

Nebula - Innovative Built Environment

Built4People is a network of clusters and local clusters that focus on sustainable construction and real estate.

Built4People is supported by the European Union.

Funded by the European Union.

B4PICs: Call for application information sheet

What added value does the Built4People network bring?

- Access to networking opportunities and resources
- Opportunities to share knowledge and best practices
- Support for innovation and business development
- Access to funding and other resources

Guidance through the process

This process includes:

1. Identification of needs and opportunities
2. Development of a business model
3. Application and assessment
4. Support and implementation

How to participate

Visit theBuilt4People network website at: www.b4people.eu

Contact info@b4people.eu for more information.
Built4People
Contact details

info@built4people.eu
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www.ectp.org

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https://www.worldgbc.org/our-regional-networks/europe
Decarbonisation of the built environment Landscapes

Denmark
Christina Grann Myrdal, Head of Innovation at We Build Denmark

Sweden
Anna Land, Programme Manager at The Swedish Centre for Innovation and Quality in the Built Environment

UK
Mat Colmer Innovation Lead Construction Team at Innovate UK
How to get ready for Horizon Europe and find the right partners?

Conal McGinley
UK National Contact Point for Energy
Decarbonisation of the Built Environment: Rebound effects in households with Heat Pumps – lower overheating risks

**Proposed Approach & Experience**
Most energy-efficiency upgrades result in at least some ‘comfort taking’, where potential energy savings are reduced by residents taking back some of the savings as higher internal temperature or other benefits. Our hypothesis is that this is less likely with heat pumps running at low temperature, often with lower total output than the gas or oil heating they replace.
We have undertaken extensive modelling of heat pumps, as well as taking detailed measurements of internal temperatures in homes, and comprehensive analysis of energy use before and after adopting thermal upgrades – including heat pumps.

**Partners**
Ideally, partners with detailed data from households before and after they have installed heat pumps – ideally one year of data before and after installation (or failing that at least one heating season before and after).

**Organisational Capabilities**
Deep understanding of rebound effects and comfort taking in homes. Quantitative analysis skills. Historic smart-meter data for tens of thousands of homes to normalise historic energy use for changing energy prices. Knowledge of past research work on internal temperature and rebound effects.
No-one else appears to have considered how the UK roll-out of heat pumps will be affected by rebound effects – despite the government target of installing 600,000 heat pumps a year by 2028.

**Administrative Information**
CAR is an SME. We have been trading successfully and working on energy efficiency since 1987.
We could act as Project Coordinator.
Contact Details: Dr Jason Palmer, Jason@carltd.com, 07806 276223
Country: UK
PIC: 996564712
Partners

We are looking for an industrial partner in wind and tidal energy area, however any academic and research collaboration is welcomed.

Organisational Capabilities

- More than a decade of experience in design and development of the vibroacoustic metamaterials for various application
- Wind tunnel
- Manufacturing and testing capabilities in large-scales
- Pioneering of energy and sustainability research

Administrative Information

Cranfield University is a public institution based in Cranfield, UK.

We are planning on being either the Coordinator or a Partner.

Dr Mostafa Ranjbar, mostafa.ranjbar@cranfield.ac.uk, Tel. 00447951528282, United Kingdom, PIC 999440762
Proposed Approach & Experience

Proposal writing stage: Project’s pathways towards impact; Measures to maximize impact – Communication, Dissemination and Exploitation; IPRs management; Pathways to impact table: C & D & E measures; Target groups definition; Work package description; Critical risks for implementation; Business case or business plan.

Implementation stage: Communication & Dissemination Plan, Communication Pack Development, Day-to-day communication, Events organization, Use case monitoring, IPRs and Exploitation Strategy, Market Analysis, Business Plan, LCA, s-LCA, Social Acceptance Analysis, ESG reports, Field surveys, Replication of results.

Organisational Capabilities

Pilots’ development and monitoring through Chambers, Academic Labs, Regional and Local Authorities.

Network of Interest development and engagement.

Social Sciences and Humanities expertise and experience.

Partners

Seeking roll as a Partner for tasks:
- IPRs
- Commercial exploitation
- Dissemination
- LCA, s-LCA
- Social Sciences and Humanities

Administrative Information

SME
Seeking roll as a Partner

Mr Manolis Tsantakis
manolis.tsantakis@enateam.gr +30 6944 83 51 51
Greece
PIC 916359292

Design for adaptability, re-use and deconstruction of buildings, in line with the principles of circular economy (Built4People Partnership) HORIZON-CL5-2024-D4-02-04

Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership) HORIZON-CL5-2024-D4-02-05
Proposed Approach & Experience
What is your understanding of the part of the problem/challenge you can solve?
What previous, relevant, work or track record can you bring to the team?
• SME builders lack knowledge of circular deep renovation for building typology, and homeowners have little confidence in builder’s ability to conduct retrofits
• Deliver an innovative cloud-hosted, process-based demonstrator toolkit for wide scale adoption by SME builders to quickly survey, assess, design, automatically model, and perform energy and cost analysis for homeowners undertaking retrofit
• Easy-to-use, affordable and practical BIM toolkit will streamline the retrofit process and provide an extensive retrofit knowledge base, thus reducing the cost of retrofit through accurate estimating and scheduling
• HBXL and the UWE (Bristol), in a prior Innovate UK project, produced a prototype for a single, multi-purpose BIM retrofit toolkit for SME builders

Organisational Capabilities
What skills, capabilities, facilities does your organisation have that will be vital for this project?
• HBXL has developed award winning software for over 20 years for the construction sector, with over 12000 licences delivered to the SME market
• HBXL’s team has expertise in building and programming technically challenging integrated toolkits such as H&S/SAP/Code for Sustainable Homes
• UWE has a track record in the creation of technical guides for specification and installation, in combination with research into both existing and novel materials
• UWE will also bring together all the data associated with those materials, including physical properties, costs, waste ratios, embodied energy and packaging waste

Partners
If you are looking for partners, what type of partners are you looking for?
• European based manufacturers of retrofitting products and services
• Building products’ merchants, installers, local authorities
• European academia to help with European building typologies
• European contractors to test demonstrator toolkit

Administrative Information
Is your organisation academic, SME, big business, etc. Are you planning on being the Coordinator or a Partner?
HBXL is an SME and planning on being a Partner
UWE Bristol is academic and planning on being a Partner
Your contact details including:
• Joanna Mulgrew (Managing Director – HBXL Group, UK) joanna.mulgrew@hxbl.co.uk, 07919 150382
• Lamine Mahdjoubi (Director of CABER-UWE, UK), lamine.mahdjoubi@uwe.ac.uk, 0117 32 83915
Proposed Approach & Experience
Our Founder & CEO, Ian Parry-Jones has led the design on some of the most advanced projects in Europe, from submarine launched drones, to market leading excavators, he has a proven track record for delivering customer needs on time.

Problems we address:
- **Grid connections** - Slow, unavailable, insufficient, costly and <50% EV capacity by 2050.
- **Off grid charging** - No solution for zero emission, high power construction charging.
- **“Range Anxiety”** - Availability of wide spread ultra-fast EV chargers.

Our product:
We have designed an off grid, ultra-fast, zero emission EV charger module, the electrical modules critical to our IP have been built and tested.

We now seek funding to build the full product for which we have a customer ready to trial.

Organisational Capabilities
Our team of six come from the forefront of technology in a wide variety of sectors from across Europe.

- Mechanical design, including structures, packaging & design for manufacturing.
- Electrical design, including high and low voltage along with physical implementation.
- Software Controls using a full suite of “New Eagle” and “MATLAB”.

Partners
We are looking for partners in the following areas:

- Partners to use our mobile charging units.
- We are looking for partners where our product complements an existing product.
- Hydrogen storage and supply partners.
- Compliance and safety partners.
- Test and validation of facilities relating to high voltage EV charging.

Administrative Information
We are a UK based SME.
We would prefer to be a partner for this funding and we have the capabilities to assist the co-ordinator as required.

Ian Parry-Jones
ianPJ@hixal.net
07866515216
UK
Proposed Approach & Experience
Inadequate communication of verifiable information across the built environment causes financial losses, inefficiencies and wasted resources. Missing is the accessible collaborative systems to share data for TRUSTLESS sign-offs, reporting, and automated workflows.

KATLAS has invested in 10,000 hours of R&D and thought leadership to address the most urgent societal challenges. Specializes in tailoring cutting-edge solutions for SMEs and governments, ensuring privacy, security, and sustainability in global trade, health and energy.

Our solution is a system of digital twins/verifiable personas/asset portfolios that feed information to AI acting all along supply chains - enabling different needs to be met to meet social, resilience, climate change and circular economy imperatives, through 24/7 network communications (digital exchange/marketplace).

Organisational Capabilities
Guided by CEO Edward Cole's regulatory acumen and bolstered by Development Lead Marcos Mayorga's aeronautics and physics proficiency, the project builds on our existing core software development work, our TRL4/5 award winning data management solution for AI assisted healthcare pathway, and offers a highly relevant use case and set of use cases that can transform accountability and planning for the Built Environment, bringing leading operational efficiencies and a launchpad for KATLAS to advance our platform to a leading world solution. We have already developed the critical software components and have access to talent globally through our board level technology partnership and academic relationships.

Partners
We lack industry domain knowledge to inform the early high value role2role protocols (aka smart contracts), forming a catalogue of sharable IP for industry Standards of Care.

We have the expertise to plug-in analytics but we do not have the industry applications and Data Scientists with skills and industry knowledge.

We seek R&D in federating data for analysis – in health or built environment to design a scalable solution across industry. We seek front-end taskforce to design applications for fail-fast MVPs in an agile framework.

In general, we cooperate with suppliers across the industry that wish to utilise a single sign-on unbroken chain of custody for trustless communications.

Administrative Information
We are an SME with 2 FTE punching above our weight.

Planning on being a Partner

Your contact details including:
Edward Cole, CEO, edward.cole@katlastechnology.io,
mobile:07738460812
London, UK
PIC - 896708838
Our Expertise: Specialise in **big data/machine learning/AI** and have applied these techniques to different domains in energy, smart cities, precision agriculture, health, smart cities, manufacturing, etc. to address societal challenges such as in energy, enviroinments, food security, manufacturing, smart cities etc. We have built capacity and capability in handling and analysing various big datasets such as images including remote sensing (e.g. satellite, drones, robotics), biomedical scans, IoT sensors, smartphones, texts, videos, etc. and capable of rapidly developing scalable AI driven digital platforms/solutions. Some of our exemplar works include:


3. **Healthcare**: [https://www.youtube.com/watch?v=kNosRndGK9g](https://www.youtube.com/watch?v=kNosRndGK9g) ; [https://braidd.wordpress.com](https://braidd.wordpress.com) ; [https://youtu.be/mCwd5kTAweA](https://youtu.be/mCwd5kTAweA) ; [https://youtu.be/SnLR-3PWNAw](https://youtu.be/SnLR-3PWNAw)

The Proposed Idea/Topics: Our aim is to develop novel data-driven AI powered digital solutions for automation, decision making for improved energy efficiency and resource efficiency, achieving Zero-emission in the mentioned calls. With a particular interest in **Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts** (Built4People Partnership-HORIZON-CL5-2024-D4-02-05)

Experience in Energy: We have proven track record in developing machine learning models/AI solutions in energy-efficient in building environment by harnessing various data such as environmental sensing data collected by IoT sensors, occupancy data, e.g.

1. **Big data analytics platform for Real time detection and decision making for energy consumption in building based on occupancy and environmental measures**
2. **Occupant Behaviour Pattern Modelling And Detection In Buildings Based On Environmental Sensing and novel machine learning/AI models.**

Organisation capability/offering:
Manchester Metropolitan University ([https://www.mmu.ac.uk](https://www.mmu.ac.uk)): one of the largest universities in the UK. The University has been a pioneer in modern education since its origins in 1824. It is ranked within the top 200 young universities worldwide, with 90% of research impact graded ‘world leading’ in Recent REF, and the University is proud to have ambitious plans for the future. **A wide range of the broad expertise and skills for this call we can offer:**

- Big data analytics/Machine Learning/AI and Robotics
- Software/Mobile App development/Digital platform development
- Gaming / virtual/augmented reality
- IoT, Cyber Physical Systems, Digital Twins, etc.

Administrative Information
Organisation: **Academic. Prefer to be a project partner**
Contact:
Professor Liangxiu Han,
Faculty lead for AI, Digital and Cyber Physical Systems Theme,
Deputy Director of Big Data Centre,
Department of Computing and Mathematics, Faculty of Science and Engineering,
Manchester Metropolitan University, UK
l.han@mmu.ac.uk
[http://www2.docm.mmu.ac.uk/STAFF/L.Han/](http://www2.docm.mmu.ac.uk/STAFF/L.Han/)
Proposed Approach & Experience
We can contribute to the Building Information Modelling (BIM) and Digital Twinning with the following
• Integrating buildings monitoring data (e.g. from sensors and IoT devices) into an interoperable Digital Twin for automated, optimised building performance monitoring and management, and preventive maintenance.
• Enabling buildings data interoperability, quality and integrity across the life cycle, in particular to reliably assess and track building performance over the lifecycle, enabling tailored data access for all life cycle’s stakeholders (architects, engineering companies, contractors, building owners, financing institutions, etc.).
• We have extensive expertise in building condition monitoring, data traceability, digital product passport techniques for construction products, digital twin, sensors and IoT.
• Environmental and social lifecycle assessment for buildings and products.
• The eco-accounting method developed in our H2020 CIRC4Life project can be integrated within the BIM. The methods for sustainable buildings developed in two Construction iNET projects supported by the EU reginal development programme will be valuable for the digital twin of this proposal.

Organisational Capabilities
The ADME successfully conducted/conducts a number of collaborative projects, acting as coordinator or core partner, including the EU projects (Horizon Europe REBRLION, H2020 CIRC4Life, FP7 myEcoCost, FP7 cycLED, FP7 CBM Agitators, CIP Eco-innovation Ecolights, Asia link and Asia ICT, etc), project supported by UK Research Councils, Departments, regional development agencies, industries, and other international funding organisations.
We are the school of architecture and built environment, having a rich knowledge base, laboratories and workshops in the areas required by this call topic, including circular energy, building construction and renovation, and others.
The School’s well-established Centre for Sustainable Construction and Retrofit has a wide network with stakeholders in construction, including industry, consumers, local authorities, and policy makers.

Partners
We are looking for the partners:
• Technology providers in buildings construction and renovation
• SMEs and companies in local and regional values chains to demonstrate the building information (BIM) and digital tools developed by the project
• Developers/organisers of demonstration cases of the project outcome in at least two different countries, with diverse climatic conditions.
• Partners of construction materials recycling and reuse.

Administrative Information
as an academic organisation, we can be the coordinator or a key partner of the proposal.

Contact person: Professor Daizhong Su, daizhong.su@ntu.ac.uk Tel. +44 115 8482306, Head of Advanced Design and Manufacturing Engineering Centre (ADMEC).
School of Architecture, Design and the Built Environment. Nottingham Trent University, UK.
PIC: 999824494
Proposed Approach & Experience

What is your understanding of the part of the problem/challenge you can solve?
What previous, relevant, work or track record can you bring to the team?

- **Challenge:** There is a need to better manage peak energy demand through increased flexibility including over longer time periods (multi-day and seasonal) particularly in relation to local heat supply and demand as these decarbonise. This needs to be done while ensuring disadvantaged consumer segments are not left behind and are able to benefit from the decarbonisation of energy supply.

- **Approach:** The Advanced Distributed Storage for grid Benefit project is a multi-partner collaboration developing and trialling novel thermal storage technologies that provide inter-day and month storage capabilities. The project is advancing the control technologies required to enable these store to provide grid and consumer benefits, while minimising end-user engagement requirements.

Organisational Capabilities

What skills, capabilities, facilities does your organisation have that will be vital for this project?

- **Existing multi-disciplinary partnership:** Ready to scale current trial
- **Storage technologies:** Novel (IP under development) phase change and thermochemical storage technologies being developed towards TRL 7.
- **Facilities:** Test beds across scales from material characterisation to in-home trials, including environmentally controlled testing of full scale thermal stores.
- **SME partner:** Offering commercialisation insights, controls platform and potential route to market.
- **Modelling, optimisation and control:** Unique intelligent controls development capabilities, utilising data-informed model predictive control.

The trial site is live so if you’d like to know more, we can arrange a site visit.

Partners

If you are looking for partners, what type of partners are you looking for?

- **Trial hosts:** Municipalities able to host a larger scale deployment of the technology. This could include mixed use dwellings, tower blocks or district heating networks.
- **Manufacturing scale-up expertise:** Experience of moving technologies from TRL 7 to 9, and into commercialisation.
- **Energy service providers and network operators:** Particularly those interested in exploring or trialling experimentation with tariffs or flexibility services.
- **Consumer behaviour insights:** Lifecycle user research to understand technology and tariffs use and acceptance.

Administrative Information

We are an academic organisation, currently partnered on this project with Loughborough University, University of Nottingham and Mixergy Ltd. We aim to be a project partner.

Contact details:
Dr Robert Barthorpe
r.j.barthorpe@sheffield.ac.uk
United Kingdom
The University of Sheffield PIC - 999976881
CALL – Climate, energy and mobility

Proposed Approach & Experience

Energy use modelling and routing in vehicle fleets
https://doi.org/10.3390/smartcities3030054

Partners
Seeking industrial / academic partners to explore holistic approaches to energy and fleet transport systems, Including:

- Light rail to vehicle charging (Road to Rail R2R),
- Fleet vehicle energy simulation,
- Vehicle to grid (V2G) etc.
- Energy Logistics

Organisational Capabilities

We have significant experience in modelling energy generation, storage and stand-alone microgrids.

A 2MW, 1MWh grid connected Lithium based storage facility which can be operated as a stand-alone system for model validation or equipment testing

Development of vehicle and microgrid models for energy systems

Competent in building demonstrator systems

Currently running EPSRC funded FEVER project

Administrative Information

Prof David Stone – Department of Electronic and Electrical Engineering
d_a_stone@Sheffield.ac.uk

Dr Erica Ballantyne – Transport Logistics, University of Sheffield Management School
e_e.Ballantyne@Sheffield.ac.uk

University of Sheffield, Mappin Street
Sheffield, S1 3JD
UK
### Proposed Approach & Experience

The lack of live residential building operations data poses development challenges at the property owner level, heightening the risk of missing emissions targets. Our climatetech platform enables data sharing between EU residential building occupiers and owners, emphasising collective principles.

The digital solution gathers and shares data on building performance and occupiers' behaviour, fostering a participatory approach for property management. Prioritising energy efficiency, resource sharing and sustainability our solution engages occupiers in data collection, ensuring their inclusion and shared data ownership benefits. This initiative addresses operational challenges, contributing to the transition and aligning with the data-sharing economy objective.

With a proven track record in architecture delivery for residential developments, emphasising sustainable impact and community engagement. Our joint expertise excels in translating digital solutions into real-world applications to meet climate reporting demands for sustainable investments to future-proof decision making.

### Partners

1. Data and Systems Partner specialising in property, IoT, community data collection, adept at collaborating with external parties for API integration, ensuring secure data handling, and facilitating data sales.
2. Digital Product Development Partner
3. Energy Supplier and Billing Partner/s
4. ESG / Climate Reporting Partner/s
5. Energy Behaviour Analysts/Behavioural Scientists Partner
6. Sustainable Payment Partner
7. Sustainable Reward Partner/s

### Organisational Capabilities

We bring a unique blend of strategic leadership and product development skills to decipher and integrate multifaceted elements and diverse processes through digital technology solutions, operating at the intersection of sustainable investments, energy poverty, climate issues with a specific focus on the domestic sector.

### Administrative Information

**SO Systems (UK) - SME, Partner**

- Weronika Janusek [wjanusek@icloud.com](mailto:wjanusek@icloud.com)
  EU and UK +48 601287725
- Sarah Ho [sarah@hoyys.com](mailto:sarah@hoyys.com)
  UK +44 07886732280
## Proposed Approach & Experience

### Problem:
SME firms and households need help to rapidly reduce carbon emissions

1. **Renewable energy generation needs to be stored** to adjust to energy consumption patterns and peaks. Businesses and households struggle with *energy storage investments and costs*
2. **Expensive and cumbersome to obtain green finance** for energy reduction and decarbonisation. Banks want credible control of energy transition capital and carbon impact

### Approach: Proposed solution

- **Pools of EVs as a distributed energy storage with an AI model.** Firms and households save capital investments, obtain green finance, reduce emissions, report to the lender with a click
- **AI community energy system for firms, households and vehicle owners.** AI keeps at minimum energy, emissions and critical minerals consumption. Everyone reduces energy costs and scope 3 emissions

### Experience: Previous relevant work and track record

- **AI-based analytics & Energy transition.** Oil fracking production and aviation sector. Oil & Gas and energy investments for the global bank. EV transition at the leading UK bank. Commercial AI-based FX analytics trading transactions and real-time control platform.
- **22 years of international leadership.** Sustainability and energy in UBS and EY. Worked with the European Commission. MD in a major European bank. Background leading 30 FTE teams

## Organisational Capabilities

Our competitive advantage and capabilities

- **AI model and operational know-how** to forecast business energy flows, predict energy storage capacity of EVs, match and optimally manage renewable energy demand and storage
- **Expertise and business network with financial service partners** required to establish customer acquisition partnerships
- **Methods to manage SME and retail risks** and relationships at scale
- **Collaboration with Newcastle University.** Smart energy systems modelling, artificial intelligence, system optimisation, predictive modelling and control
- **Pilot project at a leading private school** in south London starting April’24 for 9 months

## Partners

*Looking for collaborations with technical and business partners*

1. **Electric vehicles and energy distribution**
   - Technical expertise in EV charging points, batteries in EV and BESS, Vehicle-to-grid (VTG) or vehicle-to-house (VTH) technology, EV charging modes in time, extracting consumption and travel data from the electric vehicles
2. **Renewables generation technologies**
   - Deep understanding of renewable technologies abilities and limitations (degradation of PV, geothermal engineering, reversible heat pumps, and innovative solar technologies)
3. **Energy market operators**
   - Expertise to understand relationships and contract structures acceptable to energy off-takers and renewable energy generators
4. **LLM and unstructured data**
   - Expertise and ability to build Large Language Model applications applying commercial AI. Unstructured data and tech specification mining. Enterprise data for LLM.

## Administrative Information

**SME (<10 people) capable to be a Coordinator or a Partner**

**TK Services Ltd**
- Company registration number: 12129131
- Registration Date: 30th July 2019
- [https://tymurkhusainov.com](https://tymurkhusainov.com)

**Dr. Tymur Khusainov**
- me@tymurkhusainov.com
- [https://www.linkedin.com/in/tymurkhusainov/](https://www.linkedin.com/in/tymurkhusainov/)

United Kingdom (London)
Proposed Approach & Experience

I have been an academic for the last 15 years (at Cambridge, then the OU, now UWE), but also have many years previous experience of working in industry as a civil and structural buildings engineer.

In academia I have developed a long track record in understanding routes to reduction of carbon emissions from new and existing buildings, both through technical understanding of whole life and embodied carbon, and socio-technical understanding of how transitions happen and decisions are made. I am currently a subtask leader for International Energy Agency Annex 89 on Ways to Implement Net-zero Whole Life Carbon Buildings. I have participated in several Horizon calls previously as well as funding applications to UKRI (including Innovate UK). In the UK I was heavily involved in the development of the RICS whole life carbon assessment first edition, and on the working group of the second edition, and am a member of the UK Net Zero Carbon Buildings Standard and the National Retrofit Hub.

Profile: [here](#), Publications: [here](#)

Organisational Capabilities

UWE has considerable institutional experience of and capacity for developing Horizon Europe projects with a dedicated (and excellent) research management team.

I am part of a large and multi-disciplinary School of Architecture & Environment with a team of supportive fellow academics. Close links to the Engineering School and the Bristol Robotics Lab.

UWE is experienced at leading and participating in large multi-disciplinary projects and has excellent networks of industry partners.

Partners

I would be interested in talking to anyone who is looking to develop a proposal for one of the above calls, or others in which I could play a useful role. I am likely to be too busy to have much input to D4-01-01 (deadline in April), although happy to discuss with any established team. Calls with a later deadline preferable!

Administrative Information

Academic organisation, with experience of Horizon projects Partner, Work Package or Task Leader, or potentially Coordinater

Contact details:

Alice Moncaster, Professor of Sustainable Construction University of the West of England – UWE (Bristol)

Alice.Moncaster@uwe.ac.uk (UK)

Participant Identification Code (PIC) 999839432
Proposed Approach & Experience

Expertise on ethics and fairness/just transitions

SSH and philosophy-based methods

Calls
Horizon-cl5-2024-d4-02-05 on equitable participation
Ethics/SST aspects of all calls

Track Record
• Top 4 in UK for Research Power and 1st in UK for Research Environment
• Over 40 funded projects across more than 10 years, including many Horizon Europe, Horizon 2020, and FP7

Organisational Capabilities

Interdisciplinary Ethics Research Group
• Department of Politics and International Studies, University Warwick
• SSH Social Science and Humanities methods
• Expertise in: research ethics, data ethics, climate ethics, democratic participation
• Can bring in other researchers from other Warwick departments if required

Partners
Looking to join a consortium as ethics and/or SSH partner

Administrative Information
Professor Keith Hyams, k.d.hyams@warwick.ac.uk
University of Warwick, UK
www.warwick.ac.uk/ierg
PIC code: 999976784