Connected Health Summer School 2016
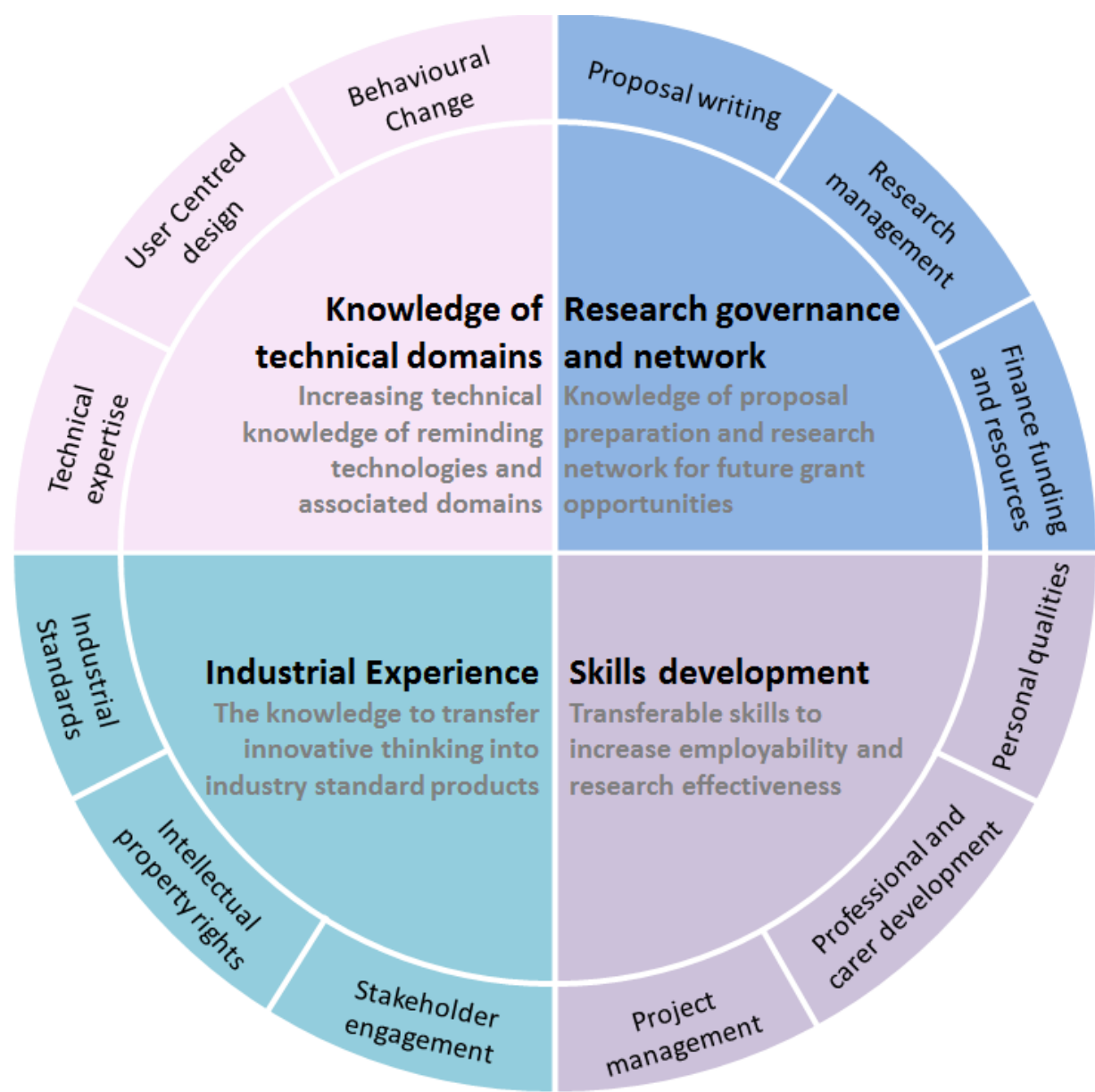## *Smart Environments for Smarter Living*

Professor Chris Nugent, Ulster University

Professor Cristiano Paggetti, I+ S.r.l.

ulster.ac.uk

Vision for Summer School

- To establish a reference for the training of early stage researchers in connected health.

- To address the multi-disciplinary needs of researchers within a complex discipline.

- To begin preparations for future carers.

- To grow network of collaborators from an early stage in the carer.

The multi-disciplinary demands of connected health

Behavioural Change

User Centred design

Technical expertise

Knowledge of technical domains
Increasing technical knowledge of reminding technologies and associated domains

Proposal writing

Research management

Finance funding and resources

Research governance and network
Knowledge of proposal preparation and research network for future grant opportunities

Industrial Standards

Intellectual property rights

Stakeholder engagement

Industrial Experience
The knowledge to transfer innovative thinking into industry standard products

Skills development
Transferable skills to increase employability and research effectiveness

Personal qualities

Professional and carer development

Project management

What is Connected Health?

- *We hope that everyone already knows the basic answer to this question!*

Connected Health Summer School Smarter Environments for Smarter Living
Artimino, Firenze, Italy. 27 -30 June 2016

		Monday, June 27	Tuesday, June 28	Wednesday, June 29	Thursday, June 30
General Topics for Discussion	**9.00**	Introduction to summer school and team. Rapid fire introductions by students. **Chris Nugent, Cristiano Paggetti**	SmartCDSS and Authoring Tool *Invited Talk* **Professor S Lee**	Round table discussion: overcoming the barriers of connected health research - the challenges and opportunities **Chris Nugent, Cristiano Paggetti**	Research Ethics: Planning your Project and Securing Ethical Approval **Bryan Scotney**
Coffee	**10.00**				
Technology Platforms	**10.15**	Sensing modalities in smart environments **Rita Paradiso**	Analysing sensed data in smart environments. **Sabato Mellone**	Classification and Clustering **Sally McClean**	Self-Man: A novel platform for the Self-Management of chronic conditions **Timothy Patterson**
Data Analytics	**11.30**	Data Matters **Sally McClean**	A review of software tools for data analytics **Timothy Patterson**	Working with Weka: Visualisation, Feature Selection and Classification **Timothy Patterson**	Group presentation
Lunch	**12:45**				
Health / Social Sciences	**14.00**	Monitoring and Evaluating the Multidimensional Impact of Complex Social and Health Care Services: Field Experiences and Methodological Issues **Federico Clani**	Understanding, detecting and influencing human behaviours in healthcare **Giuseppe Fico**	Strategies for engaging with users **Cristian Leorin**	
Coffee	**15.15**				
Business and Innovation	15.30	Market assessment and Innovation Strategies **Cristiano Paggetti**	How to commercialise your research. A case study with Intelisense **Jim McLaughlin**	Research Funding: Securing Support for your Project through a Funding Proposal **Bryan Scotney**	
Group Work	16.45-18.30	Assessing Market potential and impact indicators *Case Studies: MAESTRO project*	Designing and develop technical solution *Case Studies: Sponsor Project*	Identifying pathways to market success, innovation and sustainability analysis *Case Studies: Vitanova Project*	

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Faculty members

Dr Rita Paradiso
Smartex, Italy

Professor Cristiano Paggetti
I+ S.r.l., Florence

Dr Elena Tamburini
I+ S.r.l., Florence

Professor Cristian Leorin
Novilunio , Italy

Dr Federico Ciani
ARCO, Florence

Professor Jim McLaughlin
Intelisens, Northern Ireland

Ulster University

SERG
Smart Enviroments
Research Group

Faculty members

Professor Sally McClean
Ulster University

Dr Sabato Mellone
University of Bologna

Professor Bryan Scotney
Ulster University

Professor Chris Nugent
Ulster University

Giuseppe Fico
Universidad Politécnica de Madrid

Dr Timothy Patterson
Ulster University

Invited Speaker

Prof. Sungyoung Lee

Department of Computer Engineering,
College of Electonics and Information,
Kyung Hee University, Korea

Brief Introductions

- What is your name?

- Which University are you from?

- What is the topic of your research?

- What are your interests in connected health and smart environments?

- What is/are your main technical skill(s)?

What do you hope to benefit from attending this summer school?

10 Reasons why you are here

1. To fully appreciate the multi-disciplinary nature of undertaking research in connected health.

2. To discuss your research with international experts in the field.

3. To widen your network of colleagues.

4. To make an investment in your carer after your Phd.

5. To hear about the state of the art in Connected Health.

6. To develop new technical skills.

7. To learn about the development of producing a roadmap for implementation.

8. To have the experience of putting into practice new concepts from technical, health and business perspectives.

9. To develop personal leadership skills in a professional working environment.

10. To have fun and enjoy Tuscany!

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Group Work

- Each group has 3 persons.

- The end point is to deliver a competitive pitch on Thursday afternoon as a team.

- Each day will help prepare for the discussions during the Group Work.
  - The requirement is to produce one slide per day, with a further slide as an introduction to the Group work.

- Discussions should have a focus on smart environments.

- Faculty members will be available to assist with discussions and provide expert input.

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Group structure

- Your first task as a Group is to assign the following roles:

- Group lead – someone to organise the discussions, collect all materials and introduce the presentation on Thursday.

- One person for each of the following roles:
  - Market assessment
  - Technical Development
  - Business plan

Group Work

Group1 – Assistive technologies for persons with dementia.

Rens Brankaret, Muhammad Awais, Niklas Karvonen

Group 2 – Self-management of chronic obstructive pulmonary disease.

Ruben Giagnoni, Timothy Patterson, Sara Fioravanti

Group 3 – Avoiding sedentary behaviour in the elderly.

Federico Cruciani, Taqdir Ali, Chris Breenan

Group 4 – Prevention of chronic disease in the 40-65 year old cohort.

Fulvio Patara, Julia Marshall Leach, J Bang

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Questions?