

# Field trial plan



# Work plan

- **Phase 1 – Testing monitoring architecture**
  - Review of existing monitoring infrastructures
  - Consultation with University of Nottingham ETC (<http://www.nottingham.ac.uk/etc/>) and Estates (<http://www.nottingham.ac.uk/estate/>) regarding current monitoring capabilities of University of Nottingham and local workplaces
  - Acquiring suitable sensors and sensor hub (e.g. M2M module) – check compatibility/portability with China
  - Deploying and testing sensor infrastructure in test site (Horizon Research)



# Work plan

- **Phase 2 – Testing data store for monitoring**
  - Developing schema for data store
  - Deploying data store on suitable web platform
  - Linking sensor infrastructure to data store and testing scalability of data store for long-term monitoring



# Work plan

- **Phase 3 – Prototype (monitoring) user interfaces**
  - Review of existing user interfaces for Carbon emission awareness
  - Rapid iteration of prototypes based on paper prototyping and short test deployments at local sites (student halls of residence at University of Nottingham, Horizon Research)
  - Internationalise interfaces



# Work plan

- **Phase 4 – Test control architecture**
  - Acquire and integrate suitable control hardware with monitoring hardware
  - Modify data store to support control
  - Test control functionality (reliability and response speed)



# Work plan

- **Phase 5 – Prototype enhanced UI3**
  - Modify UI3 to enable control functionality
  - Rapid iteration of UI3 prototype in consultation with various potential end-users



# Work plan

- **Phase 6 – Formal field trials**
  - Determine observation/data capture method + sites
  - Installation of monitoring/control infrastructure + UI devices on sites
  - Pre-trial interviews/focus groups with users
  - Trial
  - Post-trial interviews/focus groups with users



# Work plan

- **Phase 7 - Analysis**
  - Data sessions/workshop with stakeholders
  - Dissemination of results
  - Plan for follow-on proposals



# Work plan

Phase	Months							
	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24
1		Impl. monitoring						
2		Impl. data store						
3			Prototype UIs					
4				Impl. control				
5								
6						Field trial		
7							Analysis	