

The logo features the word "COMET" in large, light blue, sans-serif capital letters. The letter "O" is replaced by a realistic image of the Earth. Below the "O" is a small illustration of a comet with a green and white tail. To the right of the comet, the word "INITIATIVE" is written in a smaller, teal, sans-serif font. Below "INITIATIVE", the word "DelphiManager" is written in a large, bold font, with "Delphi" in gold and "Manager" in light blue.

COMET INITIATIVE DelphiManager

DelphiManager – an example of entrepreneurial evolution?

Who am I?

- Richard Simon Alexis Crew (mum hoped I'd play for England)
- Web developer in the private sector for 12 years
- Developer for research at UoL for past 7 years
- Lead developer on DelphiManager
- Scouser



Richard Crew - MiRoR

Entrepreneur by association



R A D L E Y
L O N D O N



What is DelphiManager?

- Web based application managed entirely by the study team
- Implementation of the Delphi Method
- Intended for use with Core Outcome Sets (COS)
- Efficient and cost effective

The evolution

- Fulfilled an existing requirement (like most good ideas)
- Initially produced as bespoke software on ad hoc basis
- Not efficient (cost effective) so changed to be “self sustained”
- Original intention was to try and make it revenue neutral

Section 3: User requirements (please refer to the process notes and completion guidelines within section 7)

Note: This is a working draft and will be updated as the application is developed

1. Minimal Information systems staff involvement in application configuration and setup
2. Application to be configurable via a web based interface
3. Application to provide two basic page structures
 - 3.1. User Registration First (as per Moment)
 - 3.2. User Registration Last (as per JDM)
4. Ability to make use of previous application methodology
 - 4.1. MOMENT Health professional
 - 4.2. MOMENT Adult/Child
 - 4.3. VAPAIN
 - 4.4. JDM - asking 2 questions - same list
 - 4.5. JDM Consumer
 - 4.6. SAP - simple design, single panel
 - 4.7. Compacters
 - 4.8. Dinosaur
 - 4.9. Consensus

Option to display be clear in text about plain language

Language difference

Presented by stakeholders group

no 2 comments no 2 MOMENT

ie. the different design options

traffic light

+ COVENT (round 3 merged all rounds)

Randomisation

Cross-check list

5. Ability to customise page look and feel
 - 5.1. The look and feel must have sections that cannot be modified (e.g. reference to comet)
 - 5.2. Page title and description text to be configurable
 - 5.3. Page theme customisable
6. Ability to base display on a previous project
7. Ability to configure application using one of the templates specified in (2) to develop a new display
8. Delphi rounds
 - 8.1. Ability to specify the number of rounds
 - 8.2. Ability to specify start and end dates for rounds - and to amend them during the project
 - 8.3. Method of displaying questions and previous results configurable on a round by round basis
 - 8.4. Ability to add additional outcomes between rounds
9. All question types to be configurable
10. Ability to place questions on any page
11. Ability to email participants
 - 11.1. Configurable text in eMails to be sent
 - 11.2. Ability to save email templates
 - 11.3. Ability to customise eMails based on the person being eMailed (e.g. adding in study id and participant name)
 - 11.4. Ability to prepopulate a list of people to eMail
 - 11.5. Ability to Email registered users of the system to remind to complete a round if not completed
 - 11.6. Ability to eMail registered users to inform them that a round has opened
12. Ability to upload lists of domains (number varies)
13. Ability to upload lists of outcomes and associate with a domain, a page and help text. (number varies)
14. Ability to add outcomes in between rounds
15. Page display (including outcomes/domains) cannot be edited once data has been entered for a round
16. Participants can save for later
17. Ability to extract a defined dataset for analysis
18. Randomisation
 - 18.1. For rounds other than R1 ability to randomise participants to different display types
 - 18.2. Randomisation to be via
 - 18.2.1. Lists generated externally

Who else should be involved in system?

Unique userid (may have multiple email addresses?)

+ ability to register people store email impact of list

Upload input?

Display options depending on design

Ultimately to have to software to do the analysis?

Option for specifying text where submit button pressed

Group email

Individual email

Round 2 only if round 1 completed

The revolution

- Private sector versus research/academic mutually exclusive
- Price point agreed upon eventually!
- Branding (of sorts) determined
- Documentation and email support provided
- NOT marketed
- Ongoing discussions with Business Gateway about formal commercialisation

A success story

- Proved highly successful
 - Used for over 100 Delphi surveys globally
 - Used by over 15000 participants in those surveys
- Available in foreign languages – ongoing
- Asked to speak at OMERACT 2018
- The income generated by DelphiManager is re-invested in COMET activities

What makes an entrepreneur?

	Business	Research
Identify (or create) a gap in the market and exploit it	✓	✓
Set a competitive price	✓	?
Take risks	✓	?

Questions?

Thank you