RISCS Community Meeting

Day One – Metrics and Healthcare

Wednesday 23rd May

Goodenough College, Mecklenburgh Square, London NW1 2AB

09:30 – 10:00   **Registration** (Please join us for tea & coffee.)

10:00 – 10:45   **Welcome and announcements**

10:45 – 12:30   **Use of metrics in the healthcare sector**
To frame our two-day discussion into the use of metrics in decision making, we begin with a great line up of speakers who will discuss the use of metrics in the healthcare sector. This is a valuable use case because the interpretation of complex inputs in healthcare is crucial to informing risk decisions around data-sharing and public safety. It is also useful because it intersects with many of the IoT security issues that will frame our workshop into *Uncertainty and Complexity in the IoT* tomorrow.

- **David Reeves, NHS Digital**
  Data Security and Protection Toolkit: David will introduce us to the new data security compliance and journaling mechanism for the whole of Health and Social Care. How is data gathered and how is progress against Dame Fiona Caldicott's new 'data security standards' demonstrated for regulators and peer organisations?

- **Helen Dawes, Oxford Brookes University**
  Missing and false data: Helen will outline the potential of linking information of body functioning and other factors to inform understanding of if, why, and how interventions work. She will discuss this in the context of our transition to a health care system that supports the population to live with and manage conditions in the community.

- **Cliff Lake, Public Health England**
  Cliff will talk to us about how epidemiological data gathered from numerous sources is geospatially visualised to inform important public safety decisions on the ground.

| 12:30 – 13:30 | **Lunch** |

13:30 – 15:30   **Interactive Workshop: Use of metrics for communicating risk to board/policy communities**

In this session, we will consider how to apply cyber metrics to decision-making more generally, and raise questions about how data is best presented to the board and the policy community. We want to explore the potential for metrics to help but we also want to take a critical approach to the underlying values that can shape metrics – and consequently, decisions.

Madeline Carr (RISCS Director) and Sam B (NCSC) will give a short presentation in order to lead into an Interactive workshop in which we'll be drawing out some of the different perceptions about which metrics the cyber security community is willing and able to provide as compared to which metrics the board/policy community wishes to have provided to them.

15:30 – 16:00   **Wrap up and overview of Day Two: Decision Making Under Uncertainty**

On the second day, we bring together some of the research emerging to support decision making under uncertainty or in complex systems. In this brief taster, we quickly introduce several key approaches and outline the objectives and goals of tomorrow's workshop.

16:00 – 18:00   **Drinks Reception**

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Day Two – Decision Making Under Uncertainty

Thursday 24rd May

Goodenough College, Mecklenburgh Square, London NW1 2AB

9:30 – 10:00   **Registration (tea & coffee available)**

10:00 – 11:00   **Dealing with Uncertainty**
Following on from yesterday's focus on metrics, we move today into the domain of uncertainty. When decisions must be taken without the benefit of the kind of certainty or clarity that metrics might provide, there are a whole set of different assumptions and approaches that come into play. This morning we have a number of presentations that will briefly introduce some of the emerging work in this space including:

- **Madeline Carr (RISCS):** There are a number of interesting aspects to dealing with uncertainty that are emerging from the policy community including the World Economic Forum's work on Agile Governance as well as regulatory sandpits. While these may not be fully evolved at this stage, they point to a kind of iterative policy making that leaves scope to accommodate change or address decisions that later prove to be less than ideal.

- **Helen L (NCSC):** Helen will give an outline of some of the techniques that the NCSC has researched around orienting in problem space and complex problem solving. She will also provide an overview of the Cynefin Framework which highlights some of the risks of treating complex problems simply.

- **David Tuckett (CRUISSE):** Challenging Radical Uncertainty in Science, Society and the Environment is a network established to bring academics from disciplines in mathematical, physical, psychological, social and other sciences together to better understand and help practitioners who are making difficult decisions. David will introduce some the emerging thinking on this with a view to applying it to cyber security decision making.

11:00 – 11:30   **Morning tea**

11:30 - 13:00   **Interactive Workshop: Uncertainty and Complexity in the Internet of Things**

Drawing on our multi-disciplinary community as well as a range of invited policy and industry guests, we will be facilitating a workshop to help push thinking about a problem emanating from the Internet of Things. In order to help us engage with the work on complexity and uncertainty explained in the previous session, we will look at 'smart families' and their use of IoT circa five years into the future. The format of the session will enable people to explore their own uncertainties as representatives of their discipline or sector, as individuals who relate to the concept of family, and as contributors to multi-disciplinary research. Near term, medium term and long term uncertainty will be explored.

The outcomes of this workshop will be:

- A familiarisation with emerging thinking on uncertainty/complexity that may be useful in research into cyber security problems.
- Insight into some of the concerns about the IoT that emerge from different disciplines and sectors.

13:00 – 14:00   **Lunch**

14:00 – 15:30   **Interactive Workshop continued…**

15:30 – 15:45   **Afternoon tea**

15:45 – 16:30   **Wrap up and workshop report**