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**“People-driven On-Demand Services”**

**Abstract:**

Current service-based applications are mostly created manually, each one composed to achieve a particular set of goals. When the same application is then executed in a different context, a mismatch of goals and assumptions is likely to occur, and adaptation is needed.

We envision a new service generation where service compositions are self-adaptable to new conditions and resilient to changes in external factors. Such composite services are assembled dynamically on demand and executed (or consumed) at the point of need. In addition, they also autonomously adapt to evolving context, and can be optimized to satisfy a number of dynamic constraints. The result is that every time we run the most up-to-date version of our composite services which fully matches our requirements.

In this talk I will describe the work done in the Manchester Centre for Service Research in bringing this vision closer to reality. We take inspiration from conventional services to create a flexible value-added model of service provision. We use this model to address the challenges of adapting to changes in the context and in the services provided.