

## **Plans for Validation in the FSP**

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The FSP mission is defined as providing a capability to confidently predict the dynamics of fusion-relevant magnetically confinement plasmas. To establish the confidence in its predictions needed for extrapolation to ITER or other burning plasma experiments, the FSP will need to support and conduct a wide range of validation activities as an integral part of its overall research program. In this talk an overview of the current status of validation plans for the FSP will be presented. Specific attention will be given to the possibility of using experimentally derived benchmark cases for organizing the validation (and perhaps even verification) activities in the FSP. These benchmark cases would consist of comprehensive sets of experimental measurements that would be used to assess the physical fidelity of FSP predictions at multiple levels of physics integration. This talk aims to both solicit feedback from TTF members about the approach to validation currently under consideration in the FSP, and to identify opportunities for collaboration and interaction between the TTF and FSP activities.