

Test rig design for fusion development

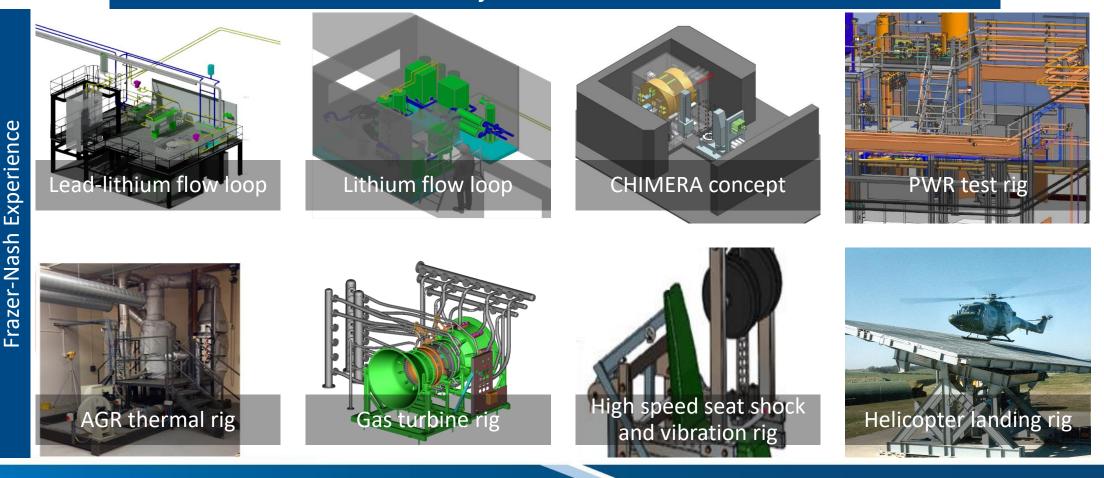
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Test rig design



Test rig AKA: Test facility/machine/flow loop

Equipment and systems designed and used specifically to further the development of fusion reactors



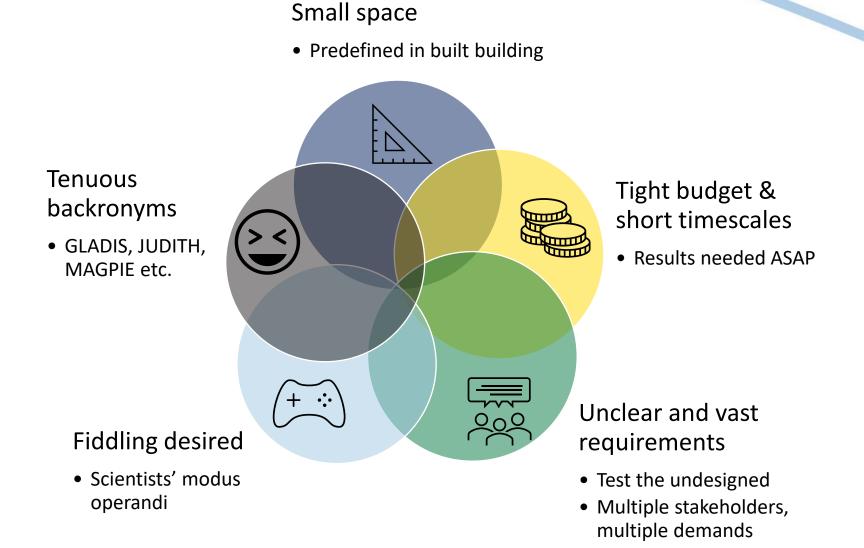
Why are they used?



	Research	Understanding physical phenomena to allow design decisions e.g. corrosion
	Verification	Demonstrating a design meets performance requirements e.g. heat removal from a diverter
	Validation	Gaining results to confirm/augment modelling work e.g. liquid metal MHD
	Experience	Learning how to operate and maintain fusion related systems
SYSTEMS · ENGINEERING · TECHNOLOGY		

Test rig design characteristics

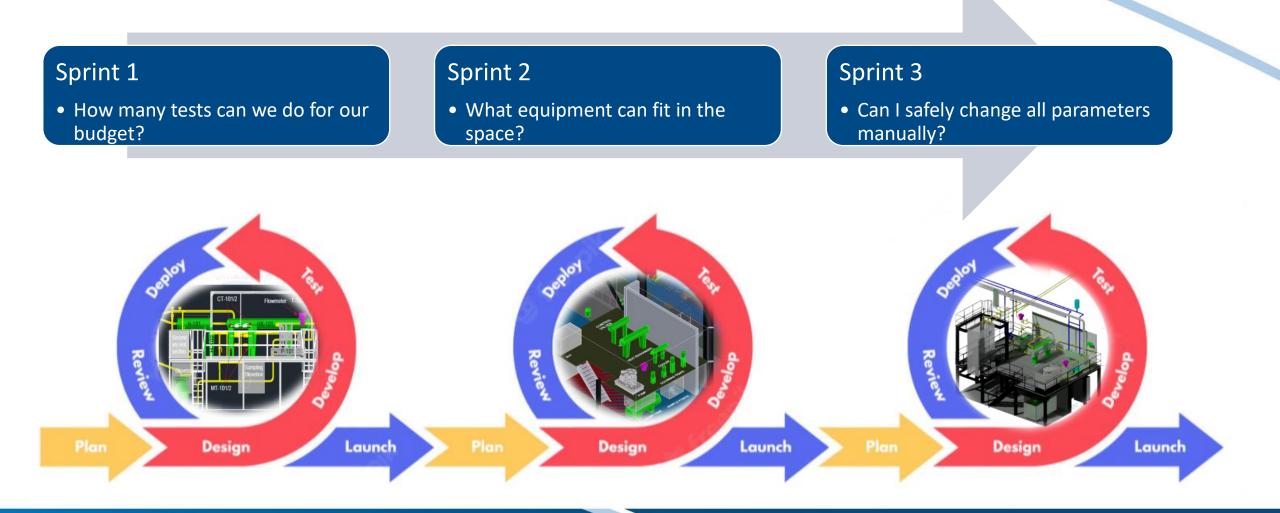




How to address?



Agile approach Rapid development, review and repeat – answer key questions quickly





Efficient test rig design for rapid fusion development

Thank you Ashley Strange