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SKA Software Development: Scaling agile software development processes around the world

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The Square Kilometre Array Organisation (SKAO) is in the process to start construction of what will be the largest research facility in the world, with two radio interferometers generating each one petabyte of data per day, which will be distributed by a network of SKA Regional Centres (SRCs). Construction is expected to start after the establishment of the SKA Observatory Inter-Governmental Organisation by mid 2021, and last for around 6 years after that. However, we are already prototyping the software development processes that will help us align the work of around 150 full-time equivalent people around the world. In this talk we will show what are the current agile software development processes at SKAO, how we are already leveraging the Scaled Agile Framework (SAFe®) to provide alignment across the world-wide community of developers and other contributors, and how we will be managing the full software lifecycle of it during construction and beyond.

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