

ENI PoC #13: Intelligent Coverage Optimization of 5G Massive MIMO BS

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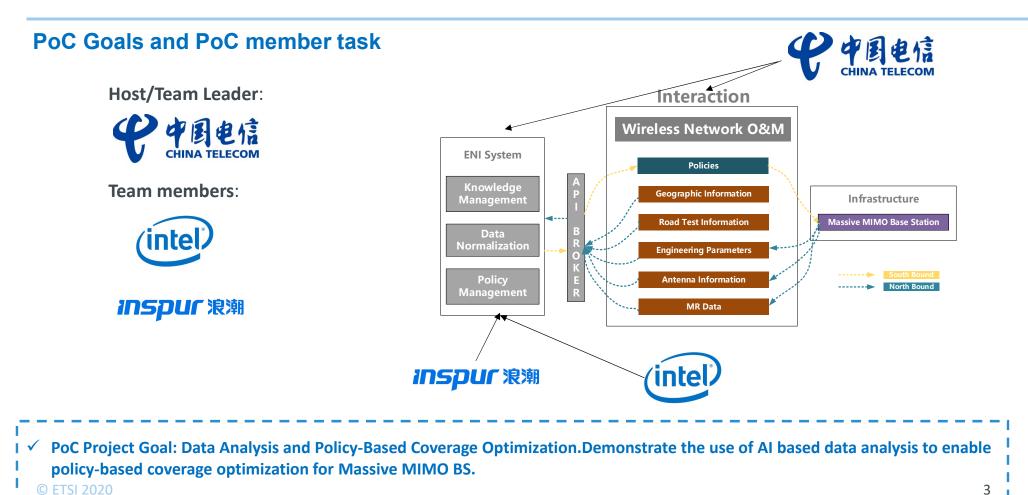
Short Description

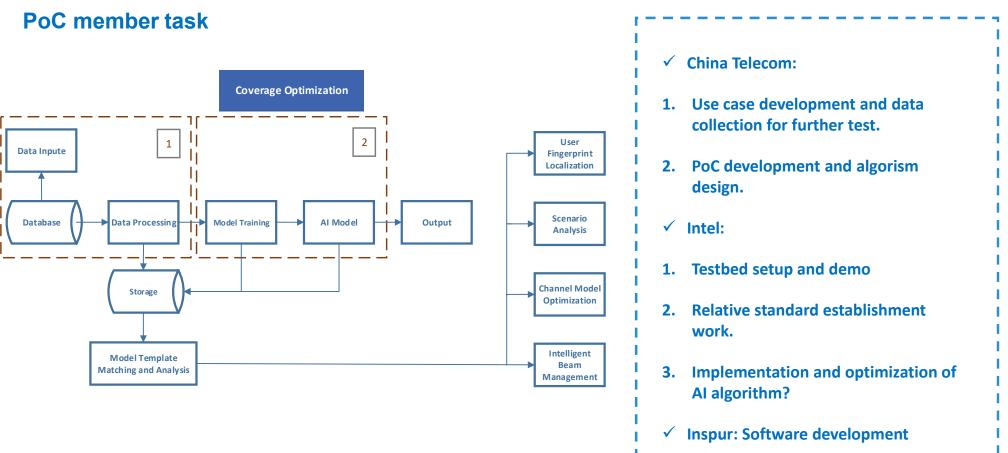
This PoC will provide viable solutions and methodologies for the Coverage Optimization of 5G Massive MIMO BS(Base Station) through the use of a set of AI(Artificial Intelligence)/ML(Machine Learning) algorithms based on a set of data including MR data, BS information(e.g. Engineering parameters, antenna information, etc.), geographic information (e.g. electronic map), etc. Beam management policies will be based on general and specific AI models to help BSs achieve a better coverage efficiency and minimize interference at the same time.

The proposed PoC intends to deploy, test and validate the AI-based methodology framework as those proposed by the above mentioned ENI WIs. More specifically, this PoC plans to improve radio coverage and capacity by using a transferable set of policies.



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Working Arrangement

	PoC Milestone	Stages/Milestone description	Target Date	Additional Info
	P.S	PoC project submission	10/2020	Presentation during #ENI Rapporteur Call#160
Current	P.S	PoC user story	12/2020	
Target	P.TP.1	PoC Test Plan 1	03/2021	Test plan based on the user story
	Р.ТР.2	PoC Test Plan 2	06/2021	Test of joint system and optimization
	P.D1	PoC Demo 1	TBD	ETSI ENI#19 ?
	P.D2	PoC Demo 2	TBD	
	P.R	PoC Report	09/2021	PoC-Project-End Feedback
	P.E	PoC Project End	12/2021	Presented to ISG ENI for information

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