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Einstein Telescope and the future of ground-based GW detection

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Einstein Telescope was conceived fifteen years ago, significantly before the first observations of gravitational waves. The concept was strongly characterized by the aim of constituting an European pole of development for a new observational branch of astrophysical science, ranging from fundamental interactions studies to cosmology. Many facts happened since that time. Given the quantity and the quality of the observations, the most relevant aspect is relevance and the value of networked operation of the detectors. Beyond that, the target of reaching all the CBC throughout the whole universe or studying extreme conditions of matter through space-time and multimessenger observations rekindled the purposes of ET community. The project is now among the most appealing European scientific infrastructures (ESFRI) and the preparatory phase, leading to constitute a wide international collaboration, is ongoing. The status and the perspective of ET will be presented.

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