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Next-generation eyes to check the pulse of Earth

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A new generation of European satellites is set to massively improve the monitoring and forecasting of weather, climate and related environmental phenomena. The presentation will show preliminary imagery from the FCI and LI instruments on the new MTG-I1 satellite currently in commissioning. These early data hold great promise particularly for nowcasting, NWP and fire applications due to their much-improved resolution and novel capability, such as continuous space-based lightning mapping over Europe and Africa. The paper also describes applications that will benefit from the next-generation polar orbiting fleet EPS-SG as well as the EPS-Sterna (MW sounding constellation) and EPS-Aeolus (Doppler wind lidar). The Sentinel satellites are a key component of the Copernicus programme, operated by EUMETSAT on behalf of the European Commission. The constant evolution of user needs and data access technology requires novel ways of capturing requirements and providing data services: the paper discusses the horizons that EUMETSAT is currently exploring in this regard.