SENSE- Ultimate low light level sensor development

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SENSE - Ultimate low light level sensor development is a project funded by the EC Horizon 2020 as FET Open Coordination and Support Action (CSA). Within the project a European R&D roadmap towards the ultimate LLL sensor was developed and with the experts group the progress in developments with respect to the roadmap will be monitored. In addition, a collaboration between several labs experienced in measuring photosensors was developed to characterize LLL sensors and standardize measurements and analysis procedures. Further cooperation especially with industrial partners is in preparation. Dissemination of results and the communication between all involved partners and interested parties is a main aspect of the project. Therefor the SENSE website provides all kind of information related to photosensors, starting from a calendar with interesting events over information about the project itself to portraits of experiments working with photosensors and the different test facilities. The SENSE forum allows for communication between all involved actors. In the future a database containing the results of SiPM characterization is planned. Several outreach activities and special trainings for students are also part of the project and will be extended in the future. The consortium has four partners: DESY (Coordinator), Germany; UNIGE, Switzerland; MPP, Germany and KIT, Germany. Several international experts on all parts of LLL developments are involved in the expert or working group of the project.