

Partner Name	ISTITUTO NAZIONALE DI RICERCA METROLOGICA	Short name	INRIM	number	06
Short Description					
<p>The INRIM (<i>Italian National Research Institute of Metrology</i>) is a public independent research body belonging to the Italian Ministry of Education, University and Research (MIUR). Its mission is to do research in the field of metrology and material science, to serve as National Metrological Institute (NMI) in Italy for the maintenance, improvement and dissemination of the measurement units, and to transfer and promote this knowledge to the Nation. The INRIM turnover was € 25M in 2007, with 224 staff + 64 temporary and students. The Division of Mechanics (one of four at the INRIM) is responsible for length (including dimensional metrology, and its base unit, the metre) and for mass and related quantities (force, pressure, etc., and its base unit, the kilogram). The competences available in the Division make it fit for supporting manufacturing industry, particularly strong in Italy. The Division counts on 43 staff + 10 temporary and students.</p> <p>The Precision Engineering Programme is in charge of dimensional metrology and computer vision. It is foremost to manufacturing industry, by providing top-level calibrations as well as contracted support in measurement design, procedures and uncertainty evaluation. Fields of activity are traditional dimensional metrology (length, diameters, angles), nanometrology, coordinate metrology and computer vision. The Programme staff is 15, of which 4 are coordinate metrology specialists. In this area, a strong background in geometrical and thermal error compensation of machines is available, as well as expertise and knowledge on uncertainty budgeting. As a way of supporting manufacturing industry, a specifically established Association (<i>CMM Club Italia</i>) is chaired and led, and active contribution is given to the standardisation activity in the area of GPS (ISO/TC213 <i>Dimensional and Geometrical Product Specification and Verification</i>), with several projects led to publication.</p>					