



Joint workshop on PTW's Integrated Safety

By the PISa and SIM concertia

May 29th, 2008, Italy

Safety of Powered Two Wheelers (PTW's)

- 6500 PTW drivers and passengers killed on EU roads
 - 16% of all traffic fatalities (40.000) in EU
 - 39 % of all traffic fatalities in South East Asia (336.000)
 - 20 times more fatality risk per km travelled than with car
-
- Safety of PTW's is one of the priorities of the EC
 - **PISa: Powered-two-wheelers Integrated Safety**



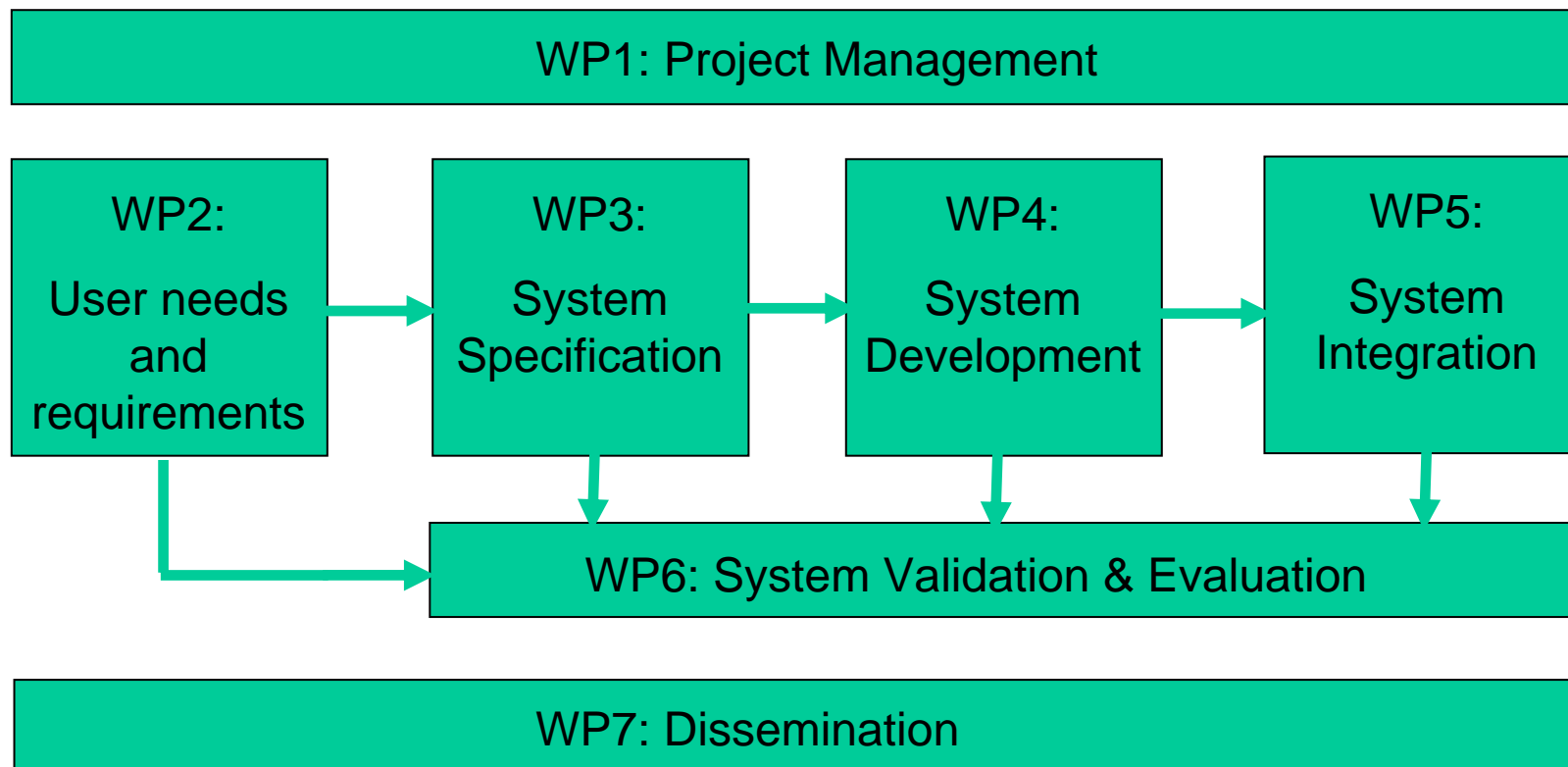
Source: ETSC ("Transport Safety Performance in EU: a Statistical Overview", 2003)



PISa project aims

- To develop and implement 'reliable and fail safe' integrated safety systems for a range of PTW's;
- These safety systems will improve performance and primary safety (handling & stability) and can link to secondary safety devices;
- The project will contribute to the EU target of 50% reduction in road accident fatalities & India's policy of enhancing the safety of PTW designs.

Project structure





Participants

1A	TNO Science & Industry	NL	Automotive
1B	TNO Defence, Security & Safety	NL	HF research
2	University of Firenze	I	HE, Research & PTW Research
3	VSRC, ESRI Loughborough University	UK	Vehicle safety research
4	Ludwig-Maximilians Universität	D	Accident & biomechanics research
5	TRL	UK	Automotive research
6	IBEO Automobile Sensor	D	Sensor systems & ADAS
7	Paioli Meccanica	I	Suspension manufacturer
8	Malaguti	I	PTW manufacturer
9	TVS Motor Company	India	PTW manufacturer
10	Carver Engineering	NL	Vehicle dynamics, project development and vehicle design
11	Uniresearch	NL	Project management support

11 partners from 4 EU countries and 1 partner from India



Further presentations

- WP2: User needs and requirements - Rachel Grant – VSRC
 - Use of accident and user data to determine and prioritise which integrated safety systems are considered likely to make a positive contribution to safety.
- WP3: System Specification - Mike McCarthy - TRL
 - Specification of the components which form part of the integrated safety system that will detect dangerous situations and prevent potential accidents.
- WP4: System Development – Bernd Roessler – IBEO
 - Development of the system covering all aspects from sensors and actuators over situation interpretation, risk assessment and warning strategies up to the HMI