The research leading to these results has received funding from the European Union’s Seventh Framework Programme ([FP7/2007-2013]) under grant agreement n°284747

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What’s in the toolbox

1) Advanced Global Survey tools to help setting priorities among the affected areas, using remote sensing, contextual data, expert knowledge and GIS analysis.

2) Non-Technical Survey tools to support Suspected Hazardous Area (SHA) assessment and delimitation using remote sensing, contextual data, expert knowledge and GIS analysis.

3) Technical Survey tools to detect indicators of probable presence of landmines/UXOs.

4) Stand-off Detection tools to detect mines, submunitions or explosives at close range with remotely controlled Micro (Unmanned) Aerial Vehicles (MAV/UAV), remote controlled ground platforms (UGV) or flying biosensors (honeybees).

5) Ground-based Close-in Detection tools, such as advanced metal detectors, ground penetrating radars and novel chemical sensors.

6) Disposal of ERW (Explosive Remnants of War) tools to protect deminers or vehicles against explosions.

7) Mine Risk Education tools to assist in Mine Risk Education activities.

8) Training tools aiming at developing capacity building and enabling the user uptake of the tools developed.

9) Mine Action mission management tools to improve planning and execution of Mine Action missions.

10) Standards this module includes the current and in-progress or proposed CEN Workshop Agreements (CWA).

Introducing the toolbox

TIRAMISU is a research project co-funded by the European Commission (total budget: 19M€) aiming to develop a set of advanced tools for Humanitarian Demining. 26 partners are collaborating over 4 years (starting from 2012) to build the best tools Europe can offer for a faster, safer and more precise decontamination of Mine- and UXO-polluted areas.

Focus on: Locostrav2 demining machine
An innovative and versatile tool for area preparation, verification and technical survey

LOCOSTRAv2 is the first demining device that can be converted to agricultural use when not being used for mine action operations, in order to facilitate the long-term economic development of mine-affected areas. The machine is a versatile asset that can be used to carry various tools in suspected hazardous areas (SHAs).

LOCOSTRAv2 in summary:
- Intrusive machine for area preparation and technical survey
- Weight: 3500 kg
- Power: 75 hp
- Shielded against Anti-Personnel mines
- Onboard and remotely operated controls
- Versatile: a wide range of tools can be mounted on the machine either at the rear, at the front or on the side
- Low cost: 58.000€
- Easy to deploy and operate

LOCOSTRAv2 preparing the terrain
LOCOSTRAv2 with deep scan tool
LOCOSTRAv2 explosion resistance test