

Flood risk management workflow

<https://www.humanitarian-risk.org/>



STEP	1	2	3	4	5	6
	Context analysis compile baseline data	Remote analysis understand hazard	Field assessment collect local information	Assets at risk identify and prioritize	Mitigation scenarios combine adapted measures	Strategy compare and decide
ACTIONS	<p>Define area of interest</p> <p>Sort existing data on:</p> <ul style="list-style-type: none"> - flood hazard - boundaries, roads,... - buildings - natural features <p>Use global sources and locally available data (drone, topo, maps, ...)</p>	<p>Analyze:</p> <ul style="list-style-type: none"> - existing hazard maps - watershed and natural drainage - lowlands - ground water - past events <p>Identify type of flood</p>	<p>Observe the terrain:</p> <ul style="list-style-type: none"> - natural features - human footprint - silent witnesses <p>Engage with community:</p> <ul style="list-style-type: none"> - interviews - participatory mapping <p>Verify / adapt remote data. Compile information in consolidated hazard map</p>	<p>Identify and categorize assets at risk (vulnerability / criticality)</p> <p>Define acceptability and prioritize intervention needs</p> <p>Receive propositions of mitigation measures</p>	<p>Analyse maps and measures from GIS Tool</p> <p>Understand the type of measure and effect using the decision tree</p> <p>Add local measures if adequate</p>	<p>Estimate implementation cost, time, feasibility</p> <p>Compare impact (adapt hazard and repeat step 4)</p> <p>Compile information to allow for an informed decision on the strategy</p>
OUTPUT	BASE MAP	INDICATIVE HAZARD MAP can be inserted in GPS or phone for site survey	GELOCALIZED DATA FINAL HAZARD MAP adapted with local info	RISK MAP LIST OF ASSETS AT RISK and priorities	SCENARIOS combining adapted measures	STRATEGY ACTION PLAN
TOOLS GUIDES	Internet qGIS software Tutorials	Internet qGIS software Tutorials	Avenza, Timestamp Local data collection guide	qGIS Risk Strategy plugin Priorization Table	Compendium of Measures Decision tree	Cost-Benefit Analysis Action plan template