



Spatial information fusion: application to expert assessment and management of natural risks in mountains

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SPATIAL INFORMATION FUSION

APPLICATION TO EXPERT ASSESSMENT AND MANAGEMENT OF NATURAL RISKS IN MOUNTAINS

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Dangerous rapid mass movements

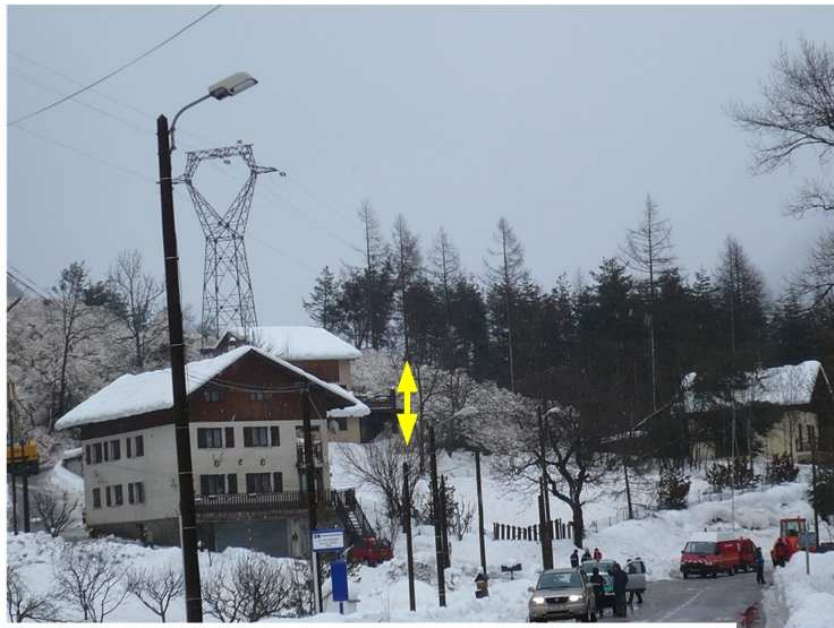
Snow avalanches



Pelvoux – 2006 (S.Escande – Cemagref)



Dégâts d'avalanche damages (Cemagref)



St Etienne de Tinée – 2009 (L. Bernard/Parc National du Mercantour)

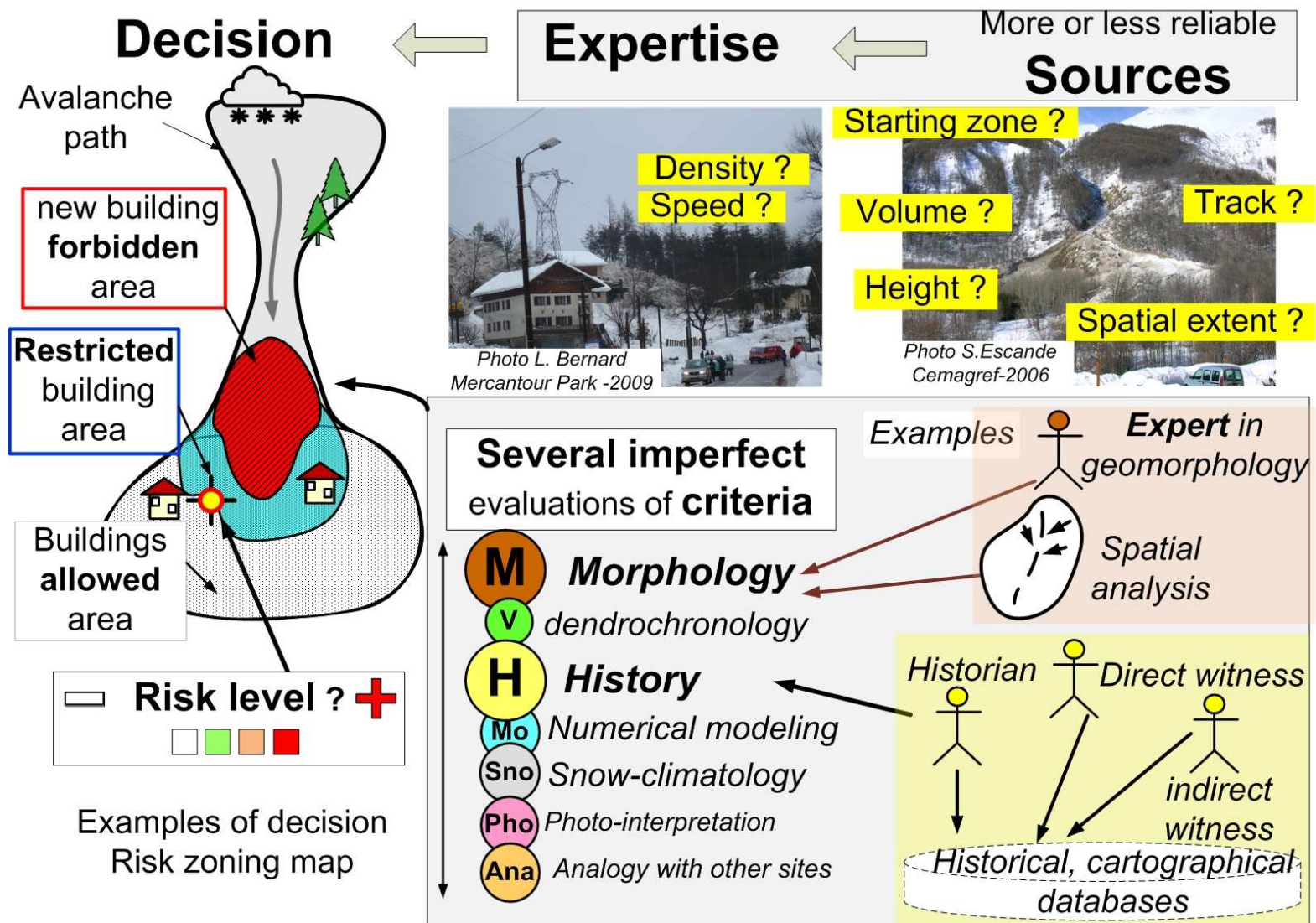
Torrential floods



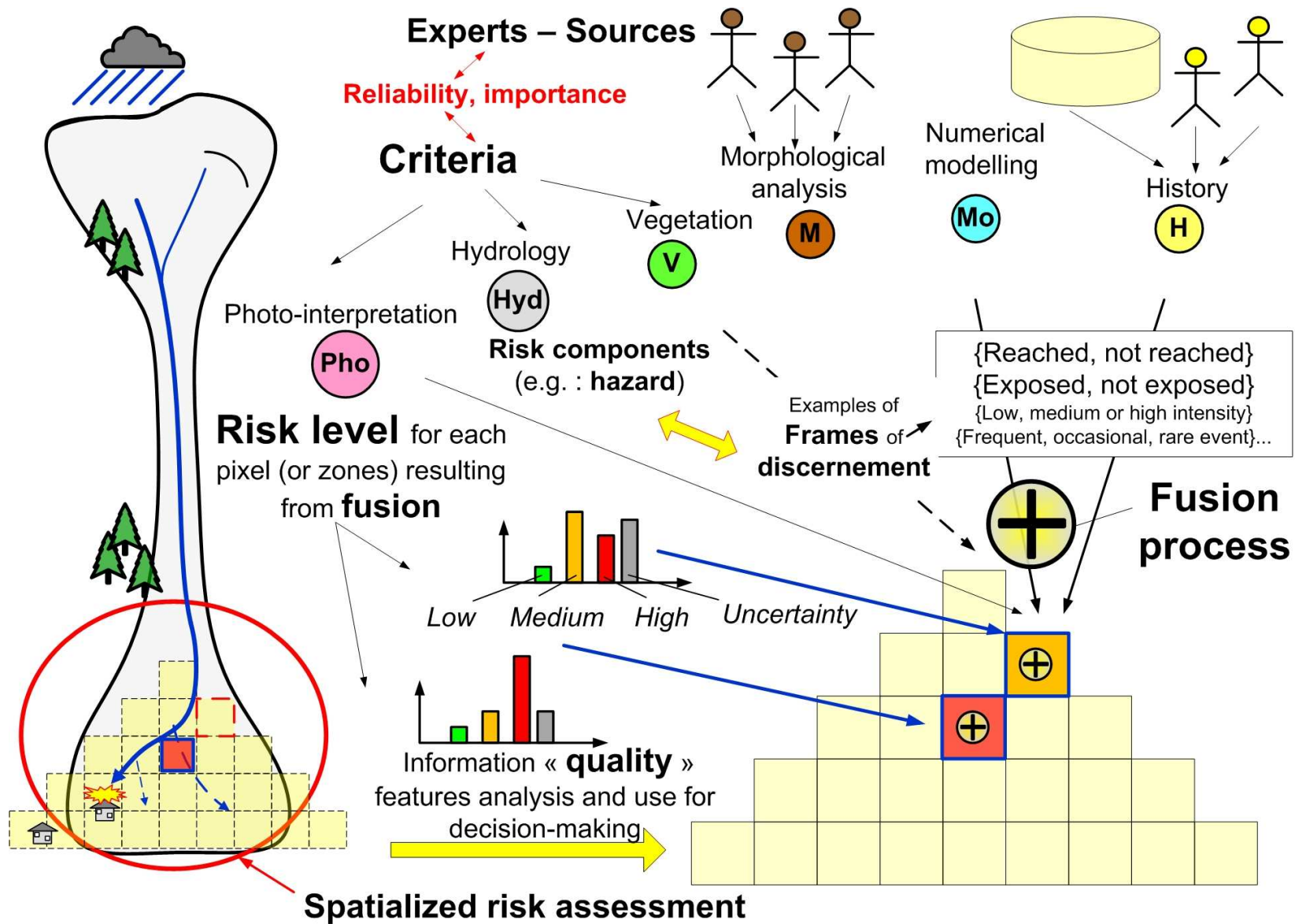
Torrent d'Armancette – Haute-Savoie – 2005
(J.M. Tacnet – Cemagref)



Torrent St Antoine – Modane - Savoie – 1987
(M. Meunier – Cemagref)

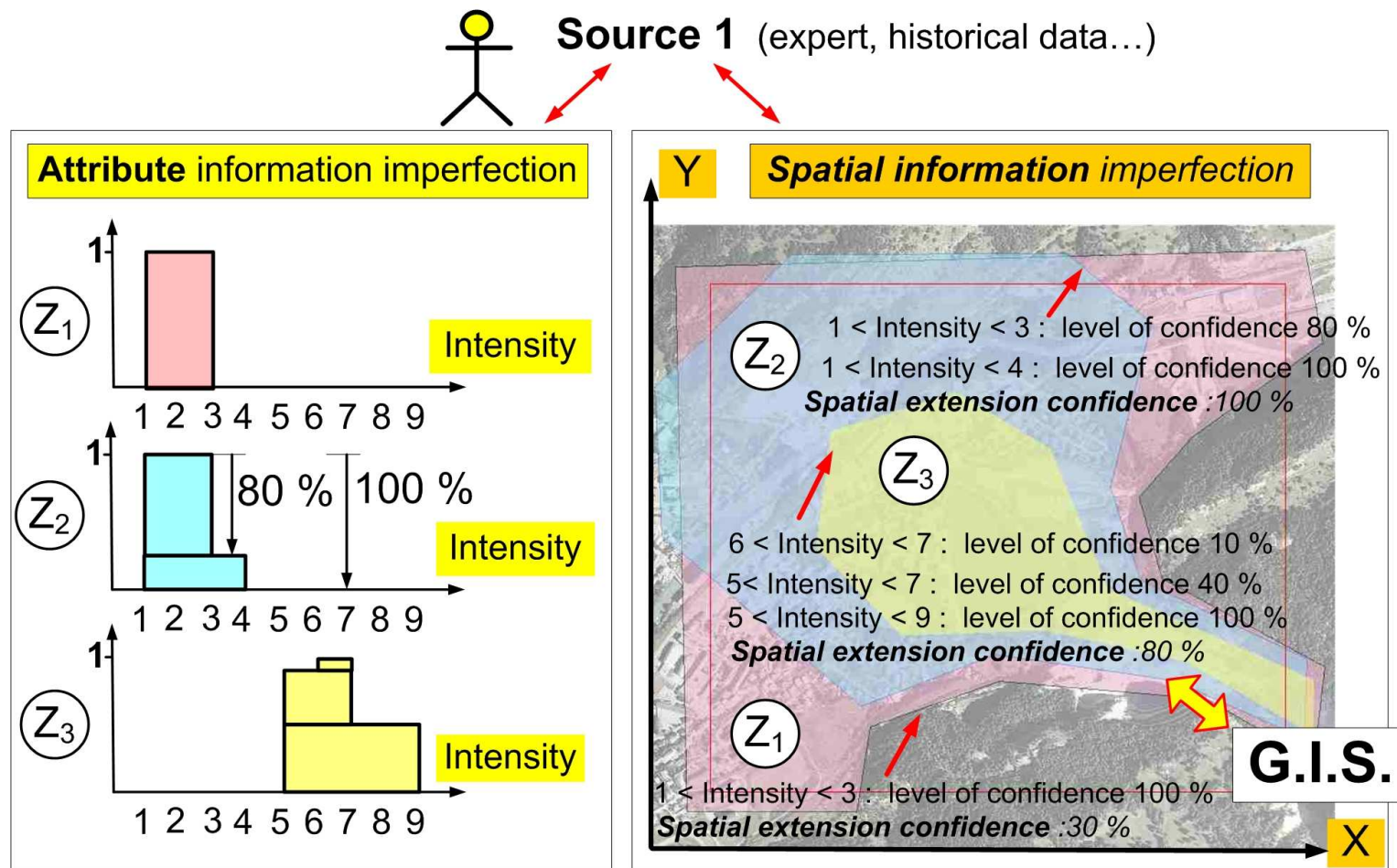


(Tacnet et al.,2010)



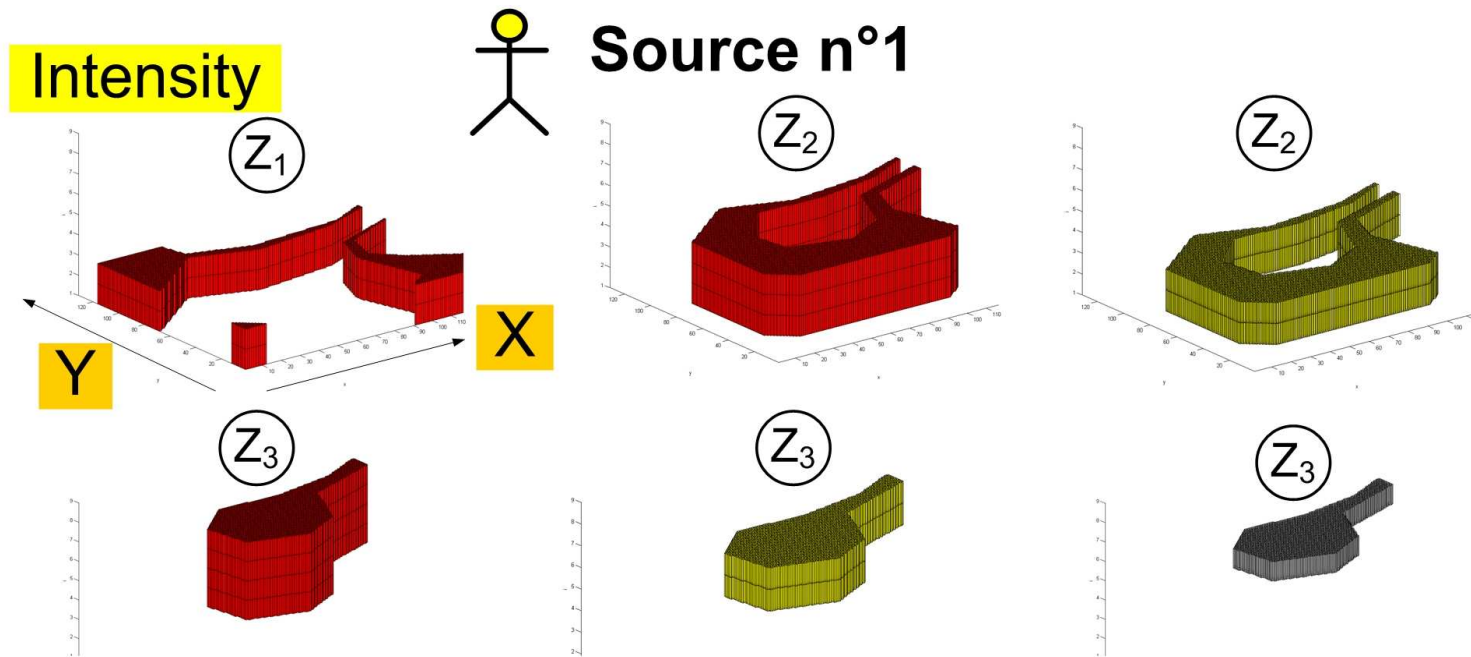
Extension of the ER-MCDA¹ methodology

¹ *Evidential reasoning – Multicriteria Decision Analysis*



Extension of the ER-MCDA1 methodology

¹ Evidential reasoning – Multicriteria Decision Analysis



Spatialized possibility distributions derived into masses (bba' s) for fusion