

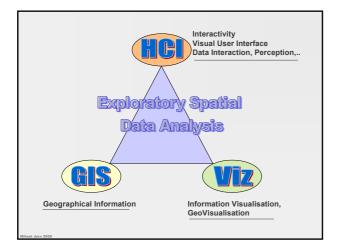
Linköping University, Sweden

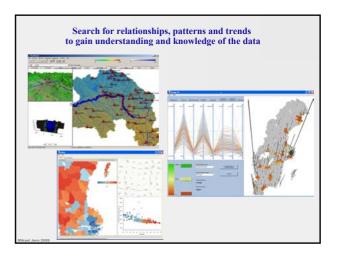
Outline – Focus on Real-time Demonstrations

Demonstrate state-of-the-art visualisation tools that can be used in geo-information fields – Disaster managements

- **Exploratory Data Analysis and Visual User Interface**
- Short Conceptual Demonstration of tools
- □ MUSIC Visual Flood forecasting
- Demonstration of FloodViewer
- Dynamic Documents Demonstration
- **Conclusion and Future**

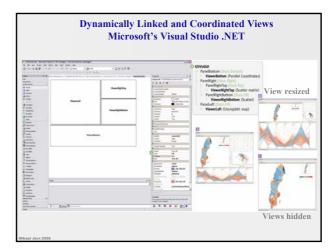
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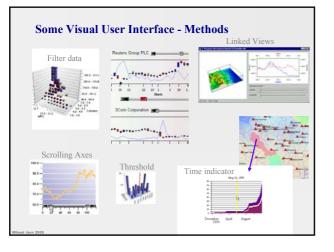








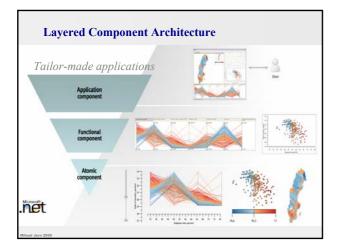


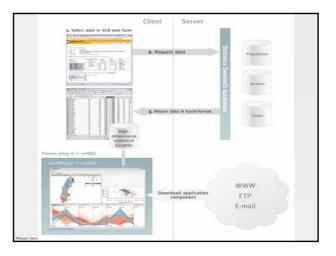


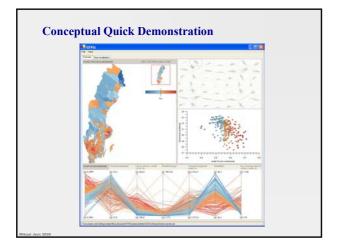
Dynamic Queries

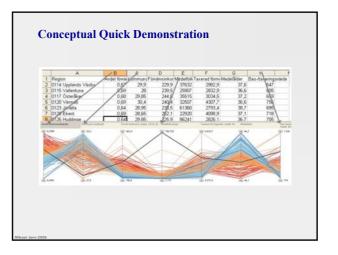
- □ Interactive control by a user of visual query parameters that generates a dynamic visual display of database search results.
- Continuously update search results as users adjust GUI sliders to emulate queries.
- □ Bypasses the need for learning syntax of database query languages.

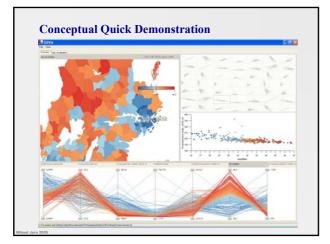










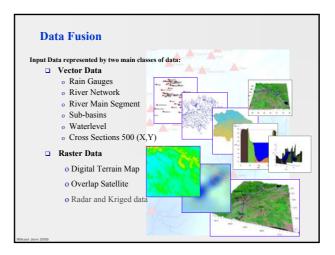


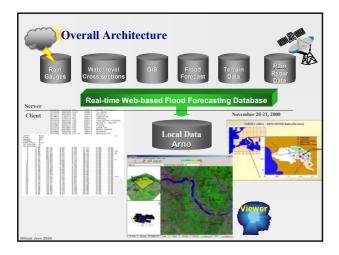


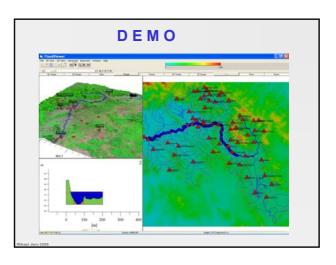
PROJECT P	ARTNERS:	
	Project Partners	Link to Websit
1 UNIBO	University of Bologna (1)	
2 UNEW	University of Newcastle upon Tyne (UE)	1930
3 CNR-ISAO	Consiglio Nazionale delle Ricerche (I)	C
4 GEMA	Gematranik GmbH elektronische Anlagen (D)	V
5 ET&P	ET&P Sri-Environmental Technologies and Products (1)	
6 LIU	Linköping University	*
7 ARPA-SMR	Agenzia Regionale Prevenzione e Ambiente dell'Emilia Romagna (i)	arpa
8 FMA	Eondazione per la Meteorologia Applicata_(I)	
9 IMGW	Institute of Meteorology and Water Management (PL)	

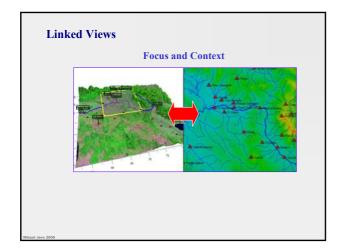
Improve the overall precipitation forecasting reliability
Develop a precipitation data fusion system (weather radar, satellite and rain-gauge)
Integrate and test the improved facilities in well proven flood forecasting models with known characteristics
Provide a measure of the uncertainty of the precipitation estimates and the flood forecasts
Design new methods of visualization and dissemination of precipitation and flood warning data

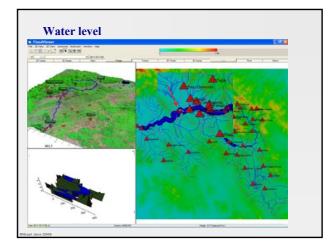


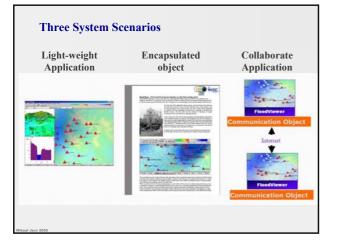


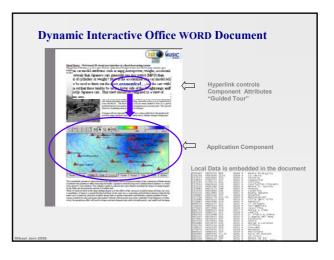












Exploratory Visualisation – Key ideas....

- Interaction with large multiD data sets
- Dynamically linked views and Dynamic Queries
- □ Fit with perceptual skills visual perception, spatial memory
- Meaningful interaction to support learning and thinking and reasoning
- Customisable Visual User Interface
- □ Small footprint Delivered through the Web
- □ No Runtime Cost Easy-to-install
- □ Can be Embedded in Electronic Documents
- Not a failed experiment
- □ But not a future revolution either...yet

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Thank you !!!