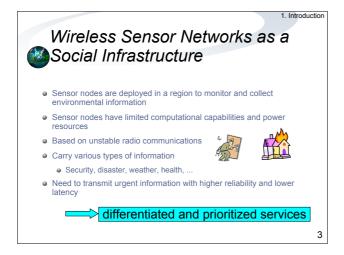
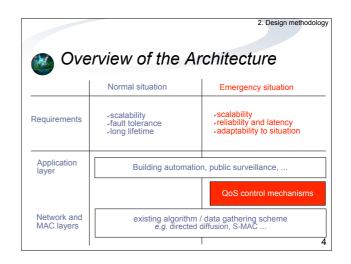
Implementation and Evaluation of an Urgent Information Transmission Architecture in Wireless Sensor Networks

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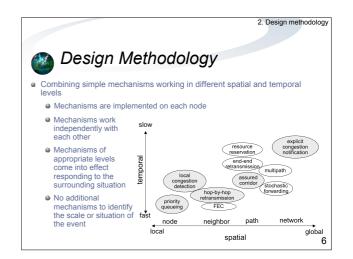
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1.	Introduction
2.	Design Methodology
3.	UMIUSI Architecture
4.	Practical Experiments
5.	Conclusion









Overview o	3. UMIUSI architecture
Application Layer	Building automation, public surveillance
Our architecture	 UMIUSI Architecture aUtonomous Mechanisms Integrated for Urgent Sensor Information
Network Layer	 Data gathering scheme Multihop routing + Sleep scheduling
MAC Layer	Contention based MAC
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	3. UMIUSI archite
🚳 UMIUSI Architectui	re
 Sensor information is categorized into three 	e traffic classes
Normal	
Non-urgent	
Tolerate loss and delay in emergency	
Gathered at an interval of t _{norm} in normal si	tuation
Important	
 Urgent but tolerate loss and delay to some overloaded 	extent when the network is
 Transmitted at an interval of t_{imp} (< t_{norm}) bucase of congestion 	It the sending rate is regulated in
Critical	
Most urgent and important	
 Transmitted at an interval of t_{cri} (< t_{norm}) an by the rate control mechanisms to retain th 	d the sending rate is not regulated e reporting rate

