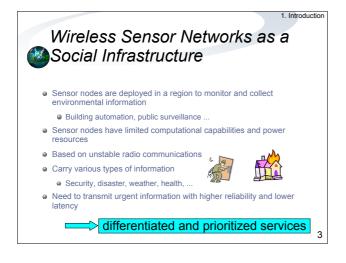
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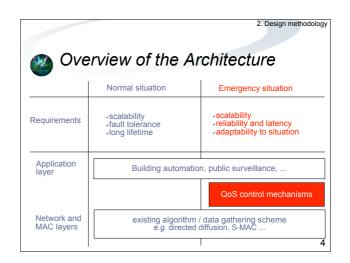
Designing a Sensor Network Architecture for Transmission of Urgent Sensor Information

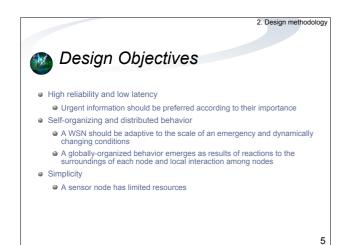
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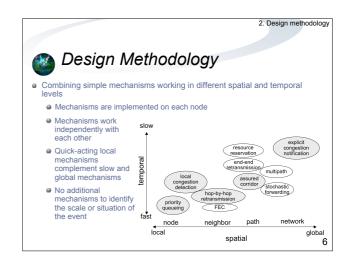
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1.	Introduction
2.	Design Methodology
3.	UMIUSI Architecture
4.	Simulation Experiments
5.	Conclusion









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
MIUSI Architectui UMIUSI	re
 Sensor information is categorized into three Normal 	traffic classes
Non-urgent	
 Gathered at an interval of t_{norm} in normal si 	tuation
Tolerate loss and delay in emergency	
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 	t the sending rate is regulated in
Critical	
Most urgent and important	
 Transmitted at an interval of t_{cri} (< t_{norm}) and to retain the reporting rate 	d the sending rate is not regulated

