

KanseiGenie: Status Summary and Prospectus

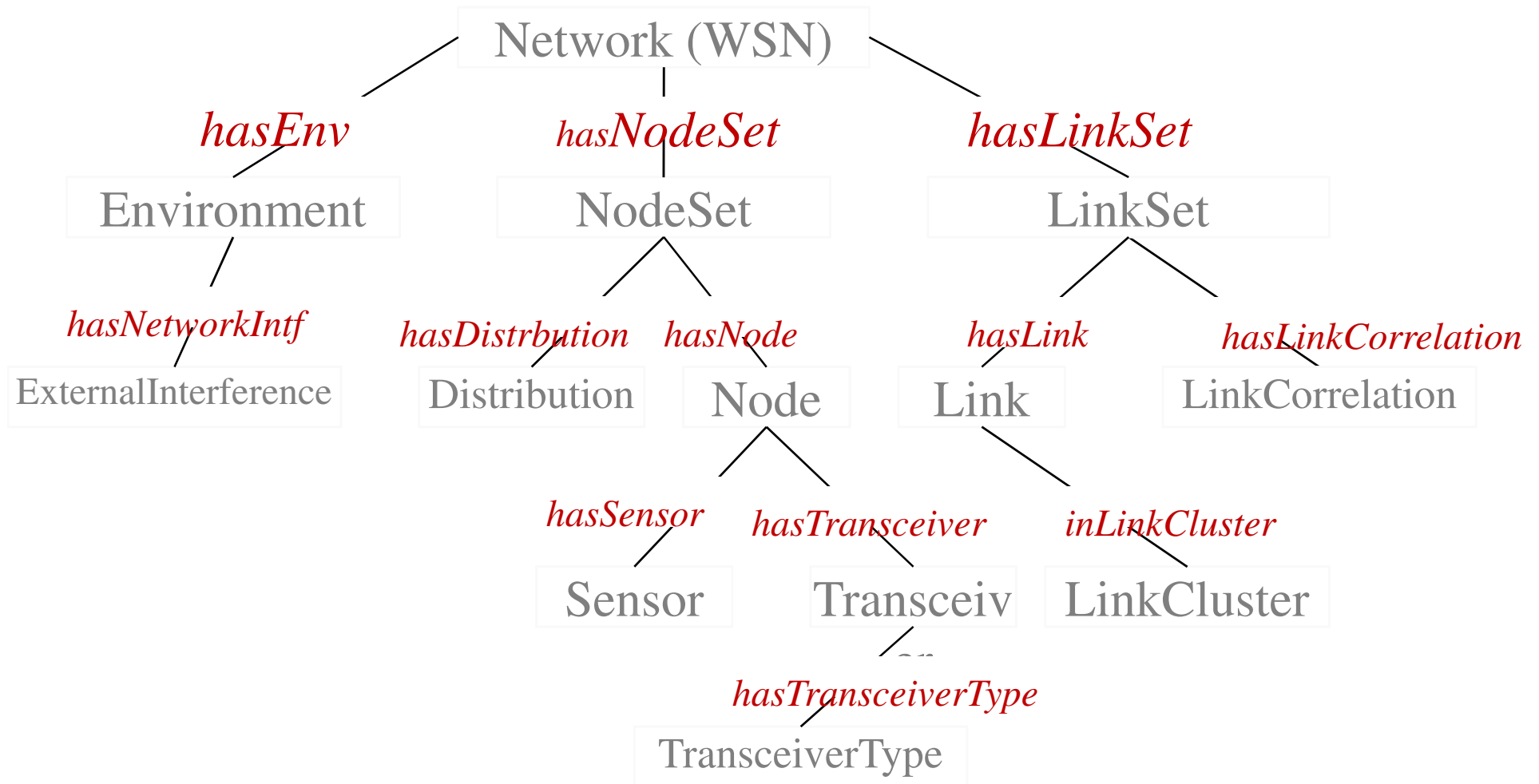
**Anish Arora, Hongwei Zhang, Rajiv Ramnath,
Mukundan Sridharan, Wenjie Zeng, Xi Ju, Jing Li**

March 17, 2011

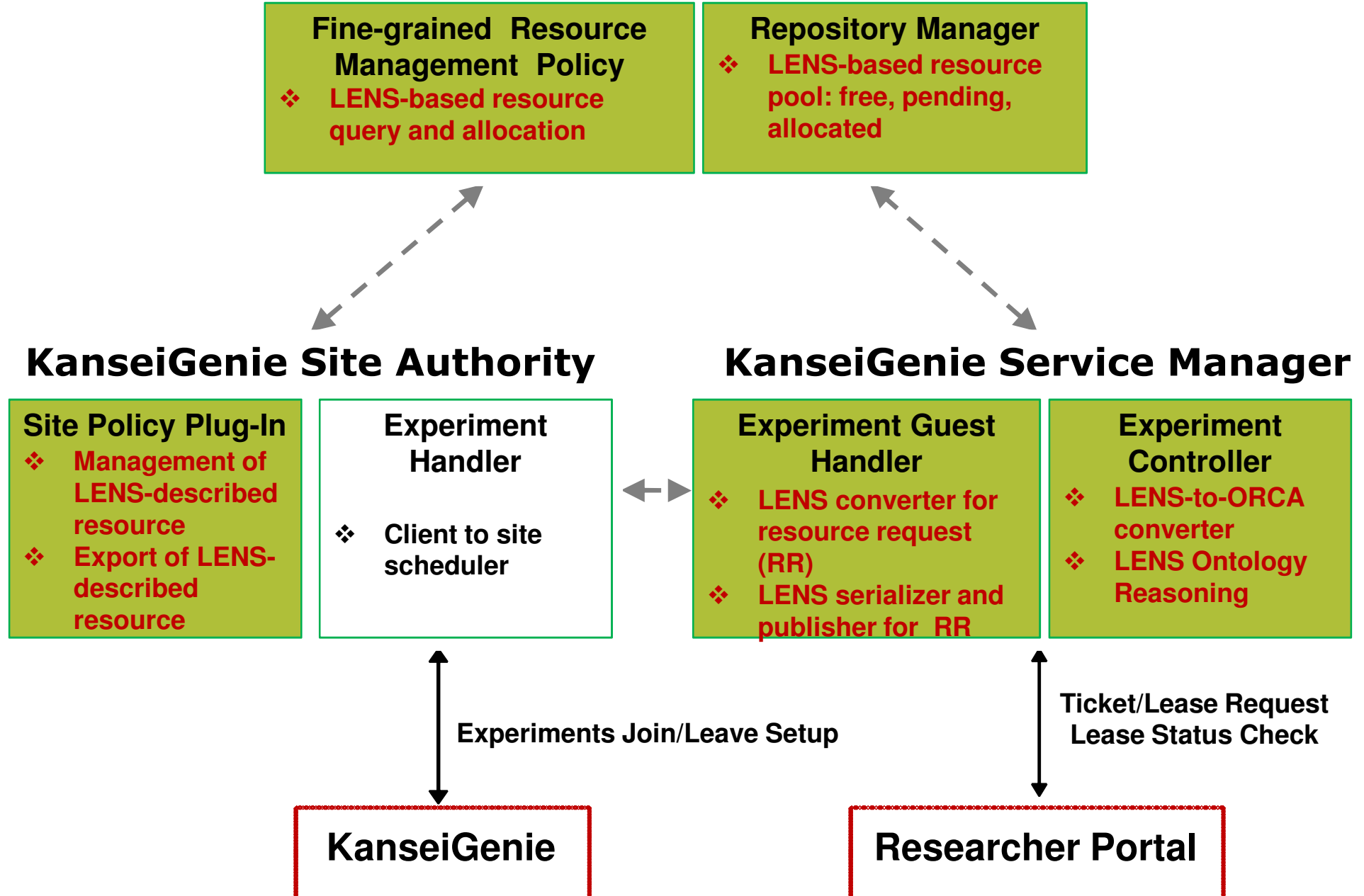


Accomplishments between GEC9 and GEC10

LENS: Language for Embedded Networked Sensing

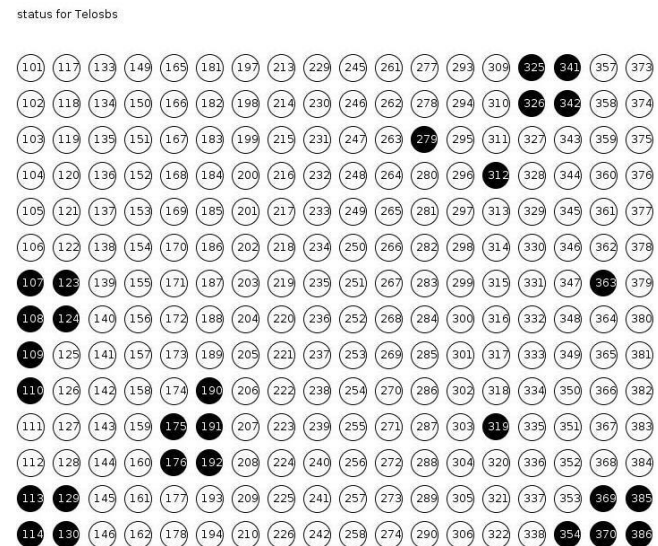


KanseiGenie Broker

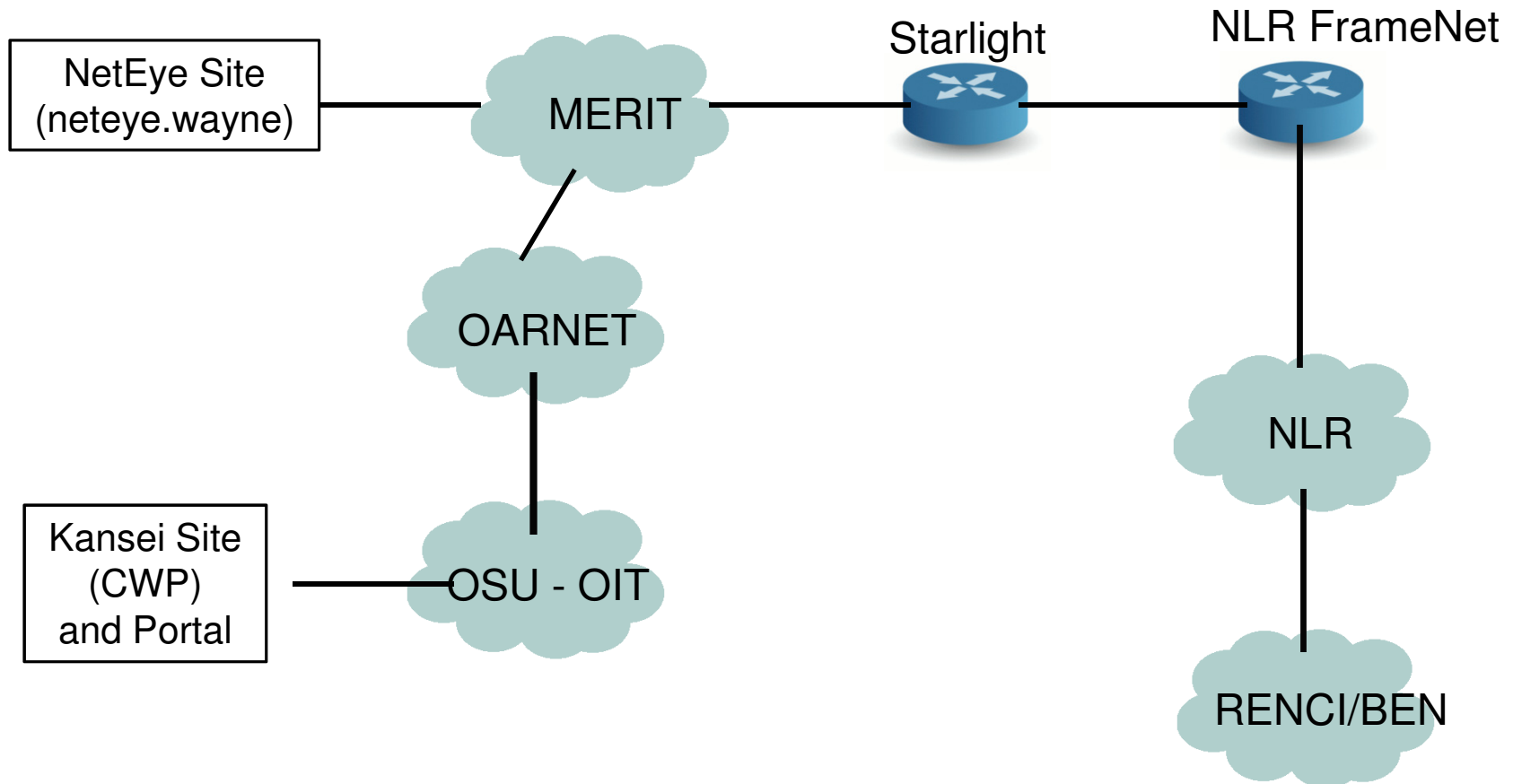


KanseiGenie Doctor

- Reason about expt. Failures:
 - Experiment design?
 - Malfunctioning testbed ?
- Support heterogeneous platforms
 - Motes : TelosB, XSM
 - Stargates
 - Laptops
- Visual presentation of health status data



KanseiGenie VLAN Connectivity



"VLAN vs. Layer3" Switch

KanseiGenie Experiment Configuration

User Name		Login Name	anish
IP address of user	136.145.215.82 (Your ip is logged)	User Email	
Description		Length	10 Minutes
Start Time Options	Date: March 16	Connection Layer	<input checked="" type="radio"/> Layer 2 <input type="radio"/> Layer 3
	Time: 11 32		Substrate Type
	<input checked="" type="radio"/> Next Available <input type="radio"/> Absolute <input type="radio"/> Force	No of Site Chosen	2
Site Name	kansei	Rspec Name	AllbutOne
Rspec ID	138	Slice ID	44

Future Plan

Future Plan

- Plan for the rest of spiral-3/project
 - Develop LENS-based resource embedding
 - Develop KanseiGenie experiment specification and control
 - Incorporate ORCA-based identity management
 - Continue supporting KanseiGenie experiments
- Longer-term goals (post-GENI-project initiatives?)
 - Keep expanding KanseiGenie consortium
 - Federate KanseiGenie with other substrates (e.g., cloud computing)
 - Measurement-based protocol/system reasoning

KanseiGenie Consortium

