

The EHR Usability Symposium

Vendor, User, Researcher, and Policy
Perspectives

Opening Remarks

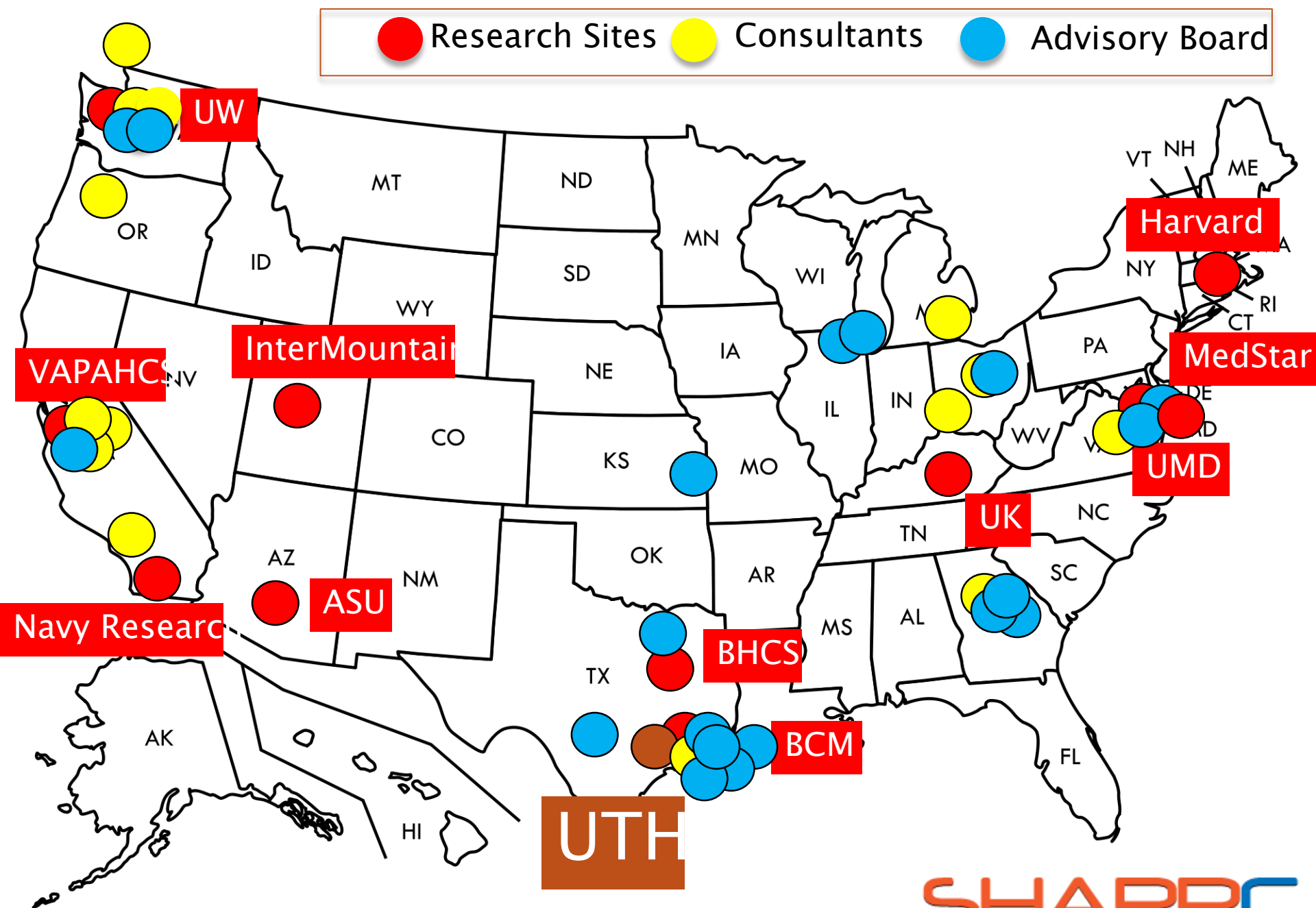
Jiajie Zhang, PhD

SHARPC PI

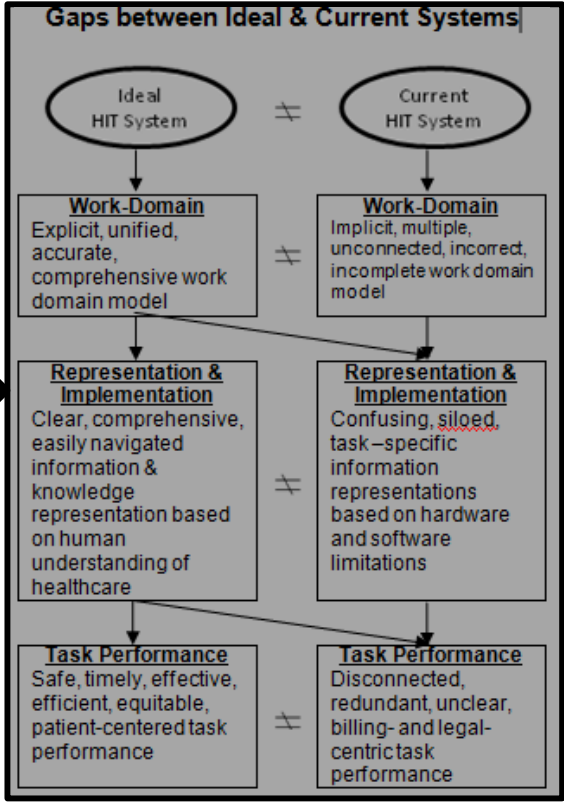
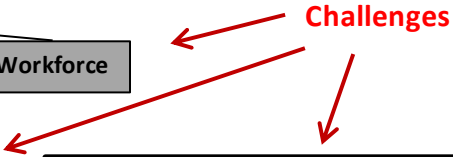
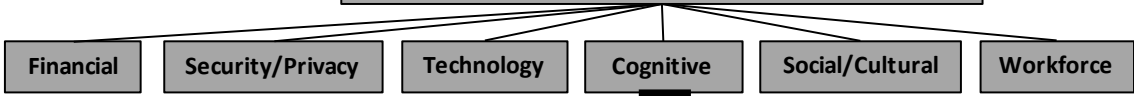
What is SHARPC

- ▶ One of four ONC funded SHARP projects
- ▶ Focus on Patient–Centered Cognitive Support
- ▶ Operate under National Center for Cognitive Informatics and Decision Making in Healthcare
 - NCCD

● Research Sites ● Consultants ● Advisory Board

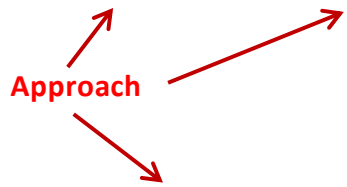


Challenges in HIT Adoption & Meaningful Use

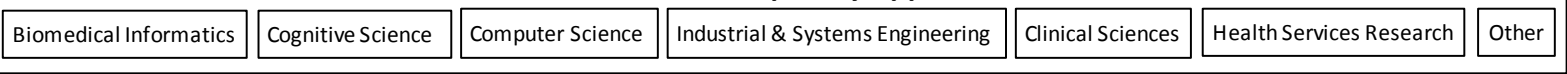


How NCCD's Six Projects Map to ONC's Research Challenges						ONC-Identified Major Research Challenges for Patient-Centered Cognitive Support
P1	P2A	P2B	P3	P4	P5	
X	X	X	X			Creating models that support dynamic abstraction of clinical information
X			X	X	X	Techniques for parsimonious information display that simplifies, while capturing essential features of a clinical decision problem
	X	X				Understanding decision making under stress and time pressure, and its implications for cognitive support
X	X	X		X	X	Communication to clinicians, addressing message content and delivery, that blends with workflow
X				X		Methods to support decisions that involve multiple stakeholders, taking into account their preferences and utilities
X				X		Methods for minimizing and simplifying, when it is necessary, manual data input by clinicians

- ### Common Use Cases for Research, Development, & Evaluation
- For Providers**
- Review patient history
 - Conduct patient assessment
 - Determine clinical decision
 - Develop treatment plan
 - Order additional services
 - Prescribe medications
 - Document visit
- For Patients & Providers**
- Communicate with providers
 - Manage medications
 - Manage chronic conditions
 - Understand health



Interdisciplinary Approach



Cooperative Program



National Center for Cognitive Informatics and Decision Making in Healthcare

Schedule

- **Welcome, Introduction & Overview** – Jiajie Zhang
- **Usability Needs in the Marketplace**
 - Vendor Perspective – Raj Ratwani
 - User Perspective – Mari Savickis, AMA
- **User Centered Design in Practice**
 - Turf Software Tool – Muhammad Walji
 - User Centered Design at Allscripts – Ross Teague
- **EHR Usability Guidelines and Style Guides**
 - EHR Design Guidelines – Todd Johnson
 - EHR Style Guide eBook – Jeff Belden
- **Supporting Safety Enhanced Design**
 - Use Case and Methods Development – Amy Franklin
 - Safety Enhanced Design at AthenaHealth – Lauren Zack
- **Advanced Decision Support and Implications for Next Generation EHRs**
 - Health eDecisions and a CDS Artifact Builder – Bob Greenes
 - Automated Clinical Summarization – Adam Wright
 - Tools for Complex Clinical Decision-Making – Trevor Cohen
- **Summary and Next Steps** – Ben Shneiderman



Finale in #C

The NCCD Orchestra