

HUMAN-CENTRIC WORKING GROUP

1. Health, wellness preservation/enhancement

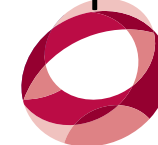
- Data-driven medicine (how do devices work with physical protocols?)
- Personalized medicine (what is role of personalized vs aggregate data)

2. Ability to interact efficiently with smart everything

- Cognitive agents are large in number and highly sophisticated/complex
- Interactions must be on a cognitive level (agents to control inference, high-level planning, behavior adaptations,...)
- Human-to-human, human-to-machine interactions

3. Enhanced tactical thinking

- Provide contextual decision support
- Adapt to unexpected situations
- Creatively solved problems (synthesize solution space)



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CONNECTION TO NANO

- Nano needs to be thought as enabling integration
 - Energy efficiency
 - Sensing efficiency
 - Harvesting efficiency
 - Flexibility
- Nano can change what you can do locally
- Connection to Biology



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MOVING THE NEEDLE FORWARD

- Moonshots
 - Closed-loop
 - Adaptive
 - Vision / Natural language
 - Small computation / Big computation
- Fundamental limits
 - Assumptions needed



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