

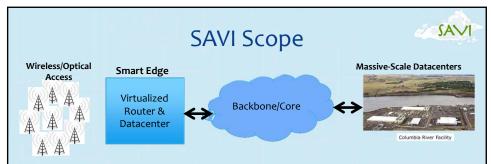
## Integrated Wireless/Optical Access

Leslie A. Rusch Université Laval

## **Core Team**

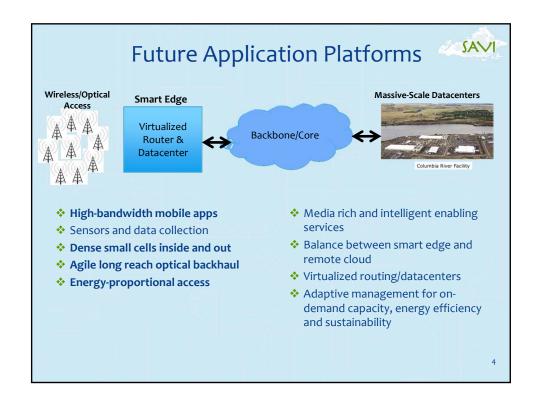


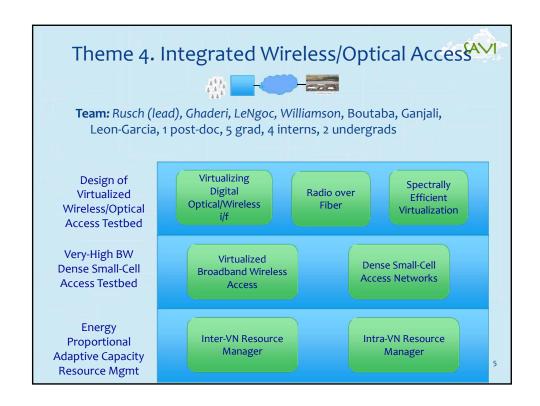
- Leslie A. Rusch
  - Université Laval, Optical Communications, extensive laboratory facilities for radio over fiber testbeds
- Tho LeNgoc
  - McGill University, Wireless Communications, extensive laboratory facilities for software radio
- Majid Ghaderi
  - University of Calgary, Resource Allocation for Wireless Networks and Network Modeling
- Carey Williamson
  - University of Calgary, Broadband Wireless Networks, Protocols, Applications, and Performance
- Assembling new SAVI recruits
  - 1 post-doc, 5 graduate students, 2 undergraduates

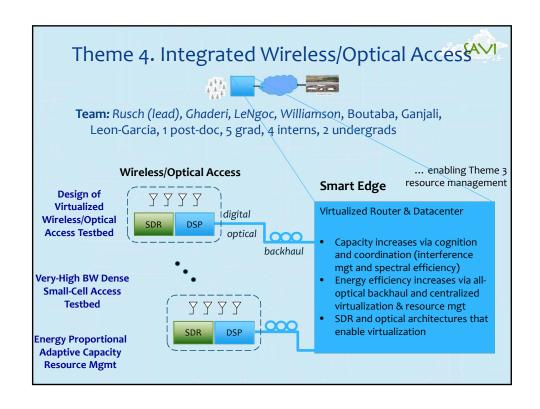


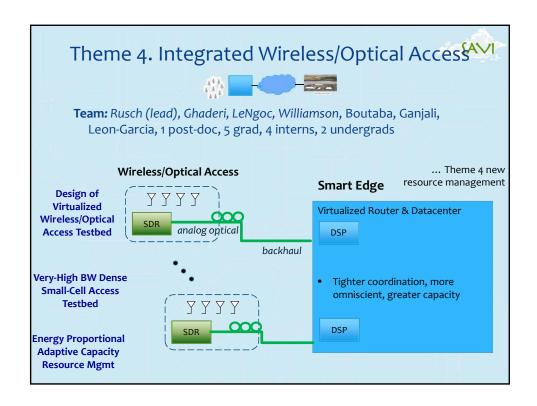
Scope: Aspects that are central to future application platforms and that address key challenges to network and service providers

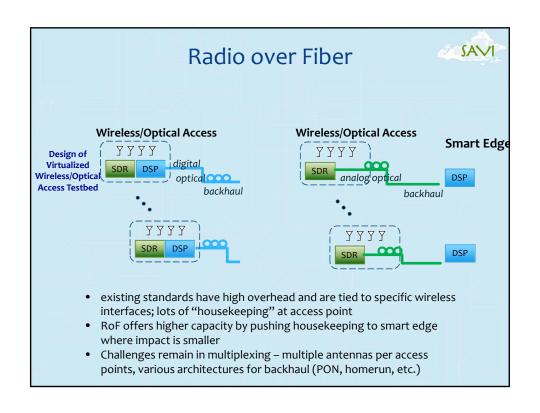
- Wireless access in the 2015-2020 timeframe;
- Novel optical backhaul including radio-based methods in the optical domain;
- Extension of cloud computing to infrastructure in a service provider smart edge;
- Control & management systems to enable experimentation with application platforms and Future Internet alternatives
- Clean and low-energy infrastructure;
- Application enablement leveraging very-high bandwidth access and services in the smart edge.

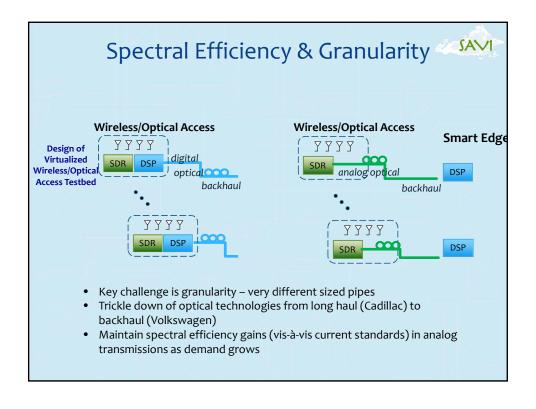












## Air-interface and network architecture design Cognitive radio Capacity and coverage optimization smaller cells lead to denser networks, greater interference and greater gains from coordination

