

# Software-defined Named Data Networking

- Motivation and problem statement
  - SDN and ICN can benefit from each other
    - SDNs can benefit from the power of caching from NDNs.
    - NDNs can be adopted with little effort by already existing SDNs.
    - The greater management control and monitoring over the network of SDN could simplify NDN management.
  - Researchers have been using SDN to address NDN management issues
  - Need an open-source SD-NDN framework to facilitate their work

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- Contribution to NDN
  - The implementation will be implemented as a standalone project.
  - This project is to provide the common SD-NDN code for other researchers.
  - Researchers can extend this code for their own requirements.
- Tasks
  - Settle down implementation details.
  - Implement the client manager and controller
- Required knowledge for participants
  - C++/Python, ndn-cxx/PyNDN
- Expected outcome
  - Collecting the topology
  - Controller set up the forwarding path when using ndn-cat-chunks for demonstration