Document Purpose

● WHY
  ○ Problems and pain points in today's networks

● HOW can ICN help
  ○ Fundamental ICN concepts

● WHAT to do in ICNRG
  ○ Research challenges, important topics

● Possible RESULTS
  ○ Impact on IETF work
Input so far

- Recent mailing list discussion
Note:

- Originally titled "Problem Statement"
- Discussion whether this is useful
- General consensus: rather describe expected challenges, i.e., topics to be worked on
- Want to add
  - some motivation (what are issues, why do we do this)
  - explanation: what is the general idea (concepts)
- Hence the following proposed structure...
Proposed Structure

1. Introduction
   ○ example pain point, example ICN solution, brief concept overview

2. Problems with information distribution today
   ○ Inefficiencies, security issues

3. Concepts
   ○ Requesting named-data as a first-order network service

4. Research Challenges
   ○ naming, security, routing, name resolution, transport, caching, interconnection

5. Impact on IETF work
   ○ anticipated changes to Internet architecture and protocols, relation to existing work (e.g., CDNI)
Current Status

- Found initial set of people to work on this
  - Dirk coordinating
- Have more detailed outline, text pieces
  - want to send around a first version after IETF-85
- Interested to help?
  - mailto:icnrg@irtf.org (or contact Dirk)