

ETHICS IN DATA SHARING

A MODEL FOR BEST PRACTICE

DATA SHARING CURRENT PRACTICE

- ▶ SURFnet shares data with researchers on a regular basis
- ▶ Mostly aggregated data (e.g., flows), but occasionally also full traces
- ▶ Ethical concerns
 - ▶ Personally identifying information? (privacy of users and institutions)
 - ▶ Opt-out right?
- ▶ Current practice addresses these concerns by sharing only based on personal relationship, i.e. forming a network of

TRUSTED RESEARCHERS ONLY



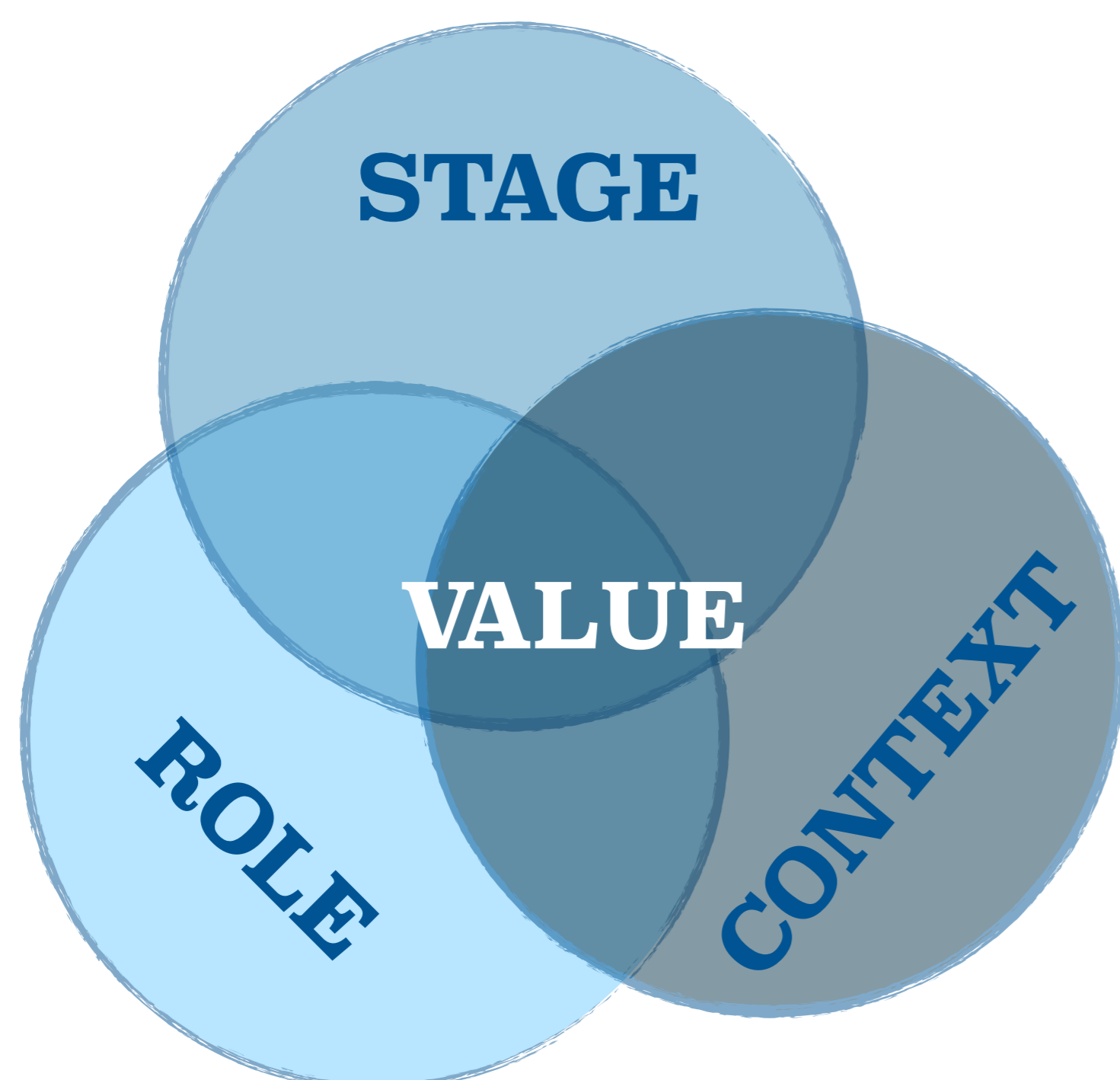
DATA LIFECYCLE

- RESEARCH DEFINITION
 RESEARCH DESIGN
 COLLECTION
 STORAGE
 ANALYSIS
 VERIFIABILITY
 DISSEMINATION
 CURATION

ETHICS?



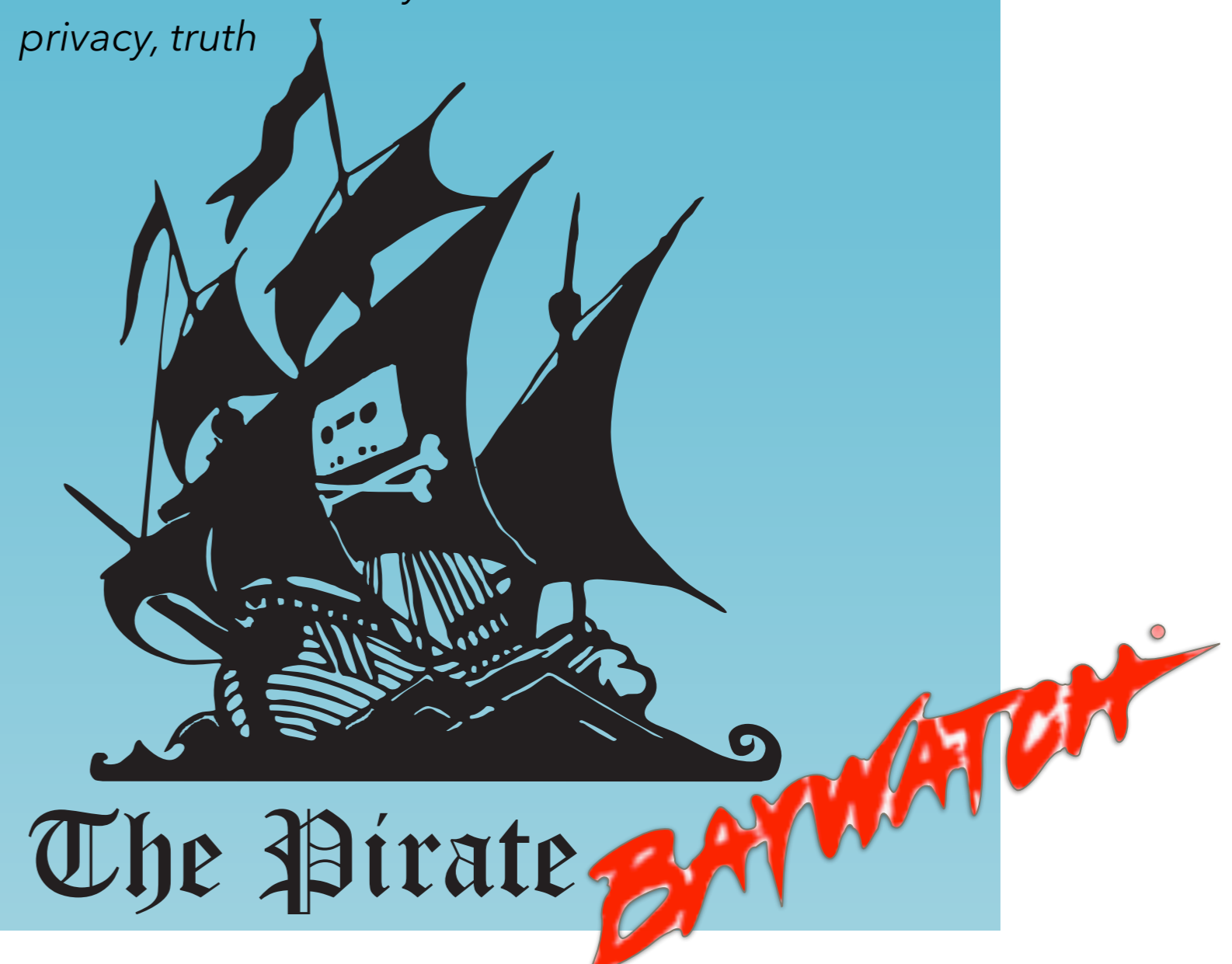
PROPOSED FRAMEWORK



Privacy, truth, effectiveness, efficiency, safety, security, objectivity, impartiality, transparency, profit, accountability, beneficence, fairness, reputation, sustainability, awareness, non-malificence...

TPB Blockade Effectiveness

Design	Design and implementation of tools and experiments <i>Values: accountability, objectivity, fairness</i>
Data Collection	Measurements <i>Values: Truth, safety, objectivity, beneficence, transparency of tool, however not for the user</i>
Data Storage	Encrypted local disk <i>Values: Privacy, reputation, truth, accountability</i>
Data Analysis	Geo Location full data; IP to AS mapping through a third party service, aggregation and statistical analysis <i>Values: Objectivity, truth, accountability</i>
Data Verifiability	Publications, outcome in a technical report (public after review by lawyers) <i>Values: Truth, accountability</i>
Dissemination	Publications, outcome in a technical report (public after review by lawyers) <i>Values: Truth, accountability</i>
Data Curation	Stored offline; shared only aggregated data. <i>Values: accountability, privacy, truth</i>



CONTACTS

Roland van Rijswijk-Deij - roland.vanrijswijk@surfnet.nl

Anna Sperotto - a.sperotto@utwente.nl

Jeroen van der Ham - vdham@uva.nl

Aimee van Wynsberghe -

a.l.vanwysberghe@utwente.nl

Ronald Leenes - r.e.leenes@tilburguniversity.edu