Caring about Sharing: User Perceptions of Multiparty Data Sharing

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Research Questions

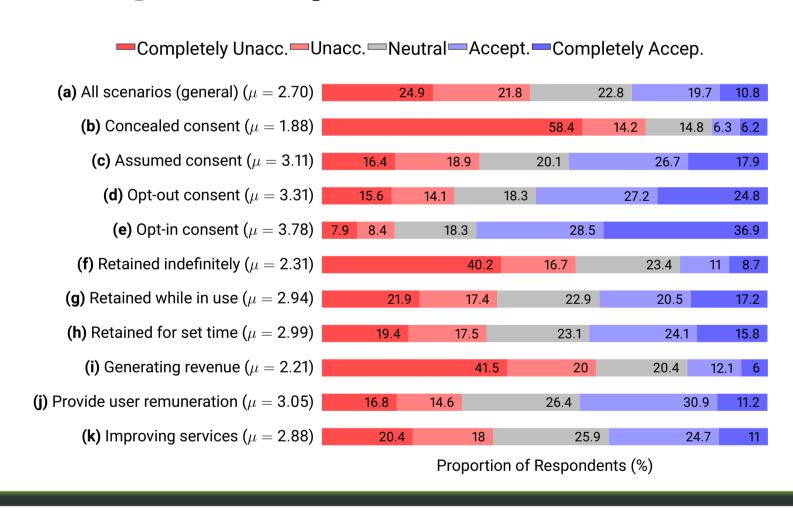
- RQ1: How does the overall acceptability vary across different types of multiparty collaborations? How do the types of companies involved further impact it?
- RQ2: How does acceptability vary in multiparty data sharing for different user controls (consent, purpose, retention)?

Survey Overview

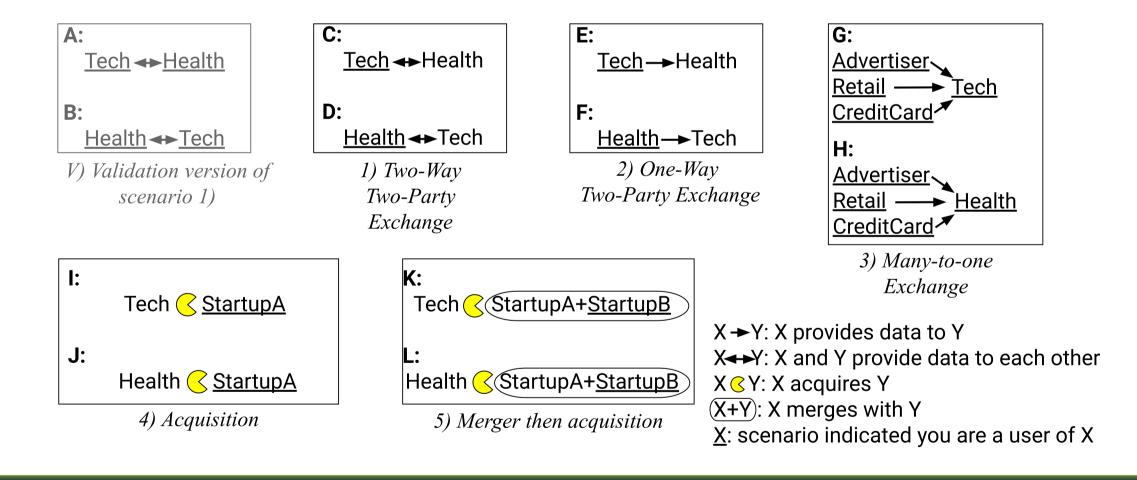
- 1025 responses collected via SurveyMonkey (final N = 916)
- Each participant receives: 1 of 12 scenarios and a series of user controls and privacy mechanisms questions

E.g., Scenario C, "TechForYou is a large internet company that offers a search engine, email accounts and smartphone platforms to users. GoodHealth runs a chain of hospitals across the country and stores health data for millions of patients during its day-today operations. TechForYou and GoodHealth will share the customer data they hold with one another. You are a customer of TechForYou".

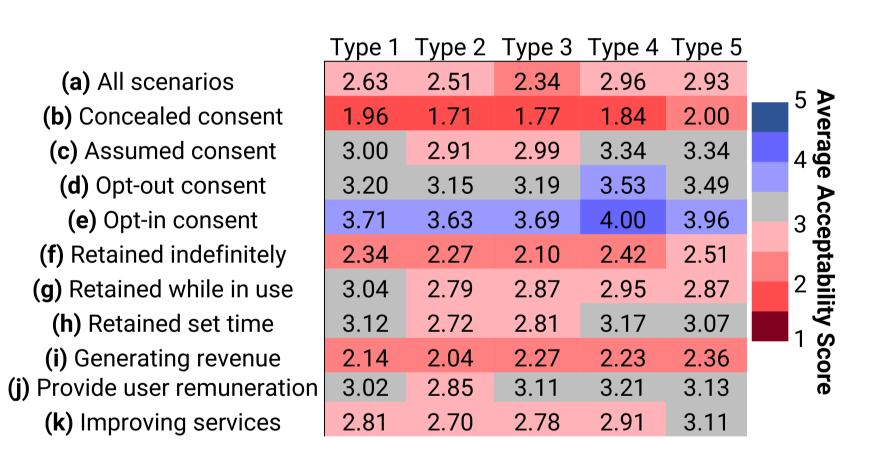
Acceptability Across Scenarios



Data Sharing Scenarios



Acceptability by Collaboration Type



Consent Across the Board

P58310: I think companies after having acquired data as an asset has one intention and it's making money through exploitation"

P20322: "I'm not happy about it because if you do agree you can't choose who it will be shared with. If you don't agree, you can't use the service"

> P53560: "I hate it. Cookies and data thieves. Opting out often renders the website unaccessible- so it's coercion/entrapment. Data breaches wouldn't really happen if data wasn't retained"

P41281: "Information collected, with the users permission, should never be shared with another company or assumed to be the property of said company if they merge with another company. This would be true regardless of whether the original company remains in the same business, or moves into a different service.'

> P09262: "...specific consent is received from the customer to where/what the information is shared to, as well as why"

P19193: "If they make people aware (in BIG print, not small, easy-to-miss print) then it's fine"

> P66884: "It's inappropriate unless the user consents explicitly and should never be a requirement for use"

Summary

- Overall acceptability is lower for non-reciprocal data sharing, and even lower with the inclusion of a health company.
- Consent is the most volatile user control preference between sharing types and emphasized in free-form responses

Full paper: B. Kacsmar, K. Tilbury, M. Mazmudar, F. Kerschbaum. Caring about Sharing: User Perceptions of Multiparty Data Sharing. The 31st USENIX Security Symposium, 2022.

Access:







