

□ How to incentivize self-interested agents to report correct information?

□ How to implement the incentive mechanism in a transparent and trustless manner?



□ How much is the cost and how can we optimize it?

- computation. They will be precomputed and reused for each agent. This approach allows for the computation to traverse the data a minimum number of times.

Complementary Theoretical Results:

Peer-Prediction in the Presence of Outcome Dependent Lying Incentives (IJCAI 2020). Naman Goel, Aris Filos-Ratsikas and Boi Faltings.

- 1. The payments in the peer-consistency mechanisms can be scaled appropriately to deal with the external lying incentives. The payments required to elicit truthful information are a small fraction of the external lying incentives.
- 2. Lying equilibrium can be eliminated by either a threat of verification or a non-zero probability of honest reports.

Comparsion of Peer-Consistency Mechanisms:



 The PTSC not only offers stronger incentive compatibility but, as shown in the figure on the right, it also outperforms other mechanisms in terms of gas cost. The Correlated Agreement mechanism generalizes the DG mechansim, and

