OpenDP Collaborations

#OpenDP2020

@mercecrosas
OpenDP Commons and End-to-End Systems

OpenDP Commons: DP Library, Tools, Packages designed and built by the community

OpenDP Library
Privacy Budgeting Tool
Common Documentation and Templates
Testing package
...

OpenDP Systems:
End-to-end differential privacy systems, usually designed and built in a partnership to address a particular use case

System 1
End-to-end solution for deploying OpenDP in partnership with Microsoft

System 2
Another end-to-end solution for a different use case

System 3
...
Package
Tool

Library and other common components used by the Systems

New components developed by OpenDP systems contributed back to OpenDP Commons
Building the OpenDP Community

- At the core, OpenDP needs a community of:
  - DP experts
  - Researchers who need results from sensitive data
  - Developers to build the libraries and systems
  - Those who provide the data

- At large, any individual in society might have an interest in OpenDP to protect her data or the data from others.
Types of Collaborations

- Adding features and tools the OpenDP Commons
- Building an OpenDP system in a partnership with the OpenDP team
- Providing data of interest to researchers through an OpenDP System
- Being an early adopter and tester OpenDP Commons and Systems
- Being part of the community
- Being a sponsor
Adding features and tools the OpenDP Commons

- *Example A*: An organization provides financial support for the implementation of a feature to be supported by the OpenDP Commons because it is of interest to that organization (e.g., support for DP queries of non-SQL databases)

- *Example B*: Engineers, DP experts, domain scientists, legal experts, and/or others from other organizations join the OpenDP team for a sabbatical with the objective to implement one aspect of OpenDP Commons.
Building an OpenDP system

*Example*: An organization wants to implement differential privacy for querying and analyzing its internal data, and *partners with the OpenDP team to build an end-to-end system*. In return, the organization contributes components to be used by the community.
Providing data of interest

- *Example A:* A company collects data that could be used to answer research questions, and makes that data available to the research community using an OpenDP system.

- *Example B:* A research group contributes (non-sensitive) data for the purpose of benchmarking.
Being an early adopter and tester

- *Example A:* A research group uses the beta releases of the OpenDP library to test it with their datasets and provide detailed feedback.

- *Example B:* A data repository integrates with a beta release of an OpenDP system and conducts user testing.
Being part of the community

Any individual interested in open-source or solving societal problems in a responsible way can contribute to:

- code
- documentation
- legal expertise
- testing

and becomes a member of the OpenDP community
Being a sponsor

- *Example A*: A foundation or a company donates to OpenDP and receives “sponsor” status.

- *Example B*: An organization sponsors a Community Meeting or a hackathon
#OpenDP2020

Thanks

@mercecrosas