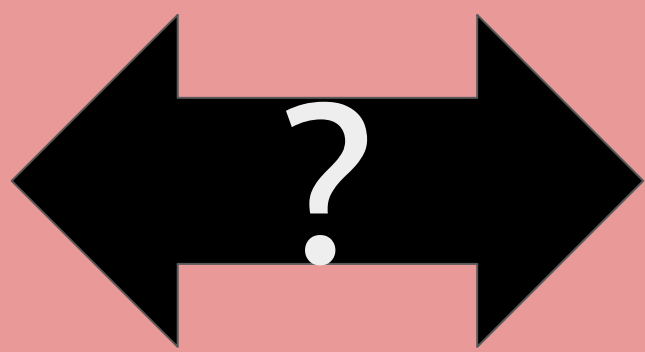


Social scientists often work with private datasets that cannot be shared due to legal restrictions, but secure multi-party computation can enable many interesting joint data analyses without exposing private datasets.



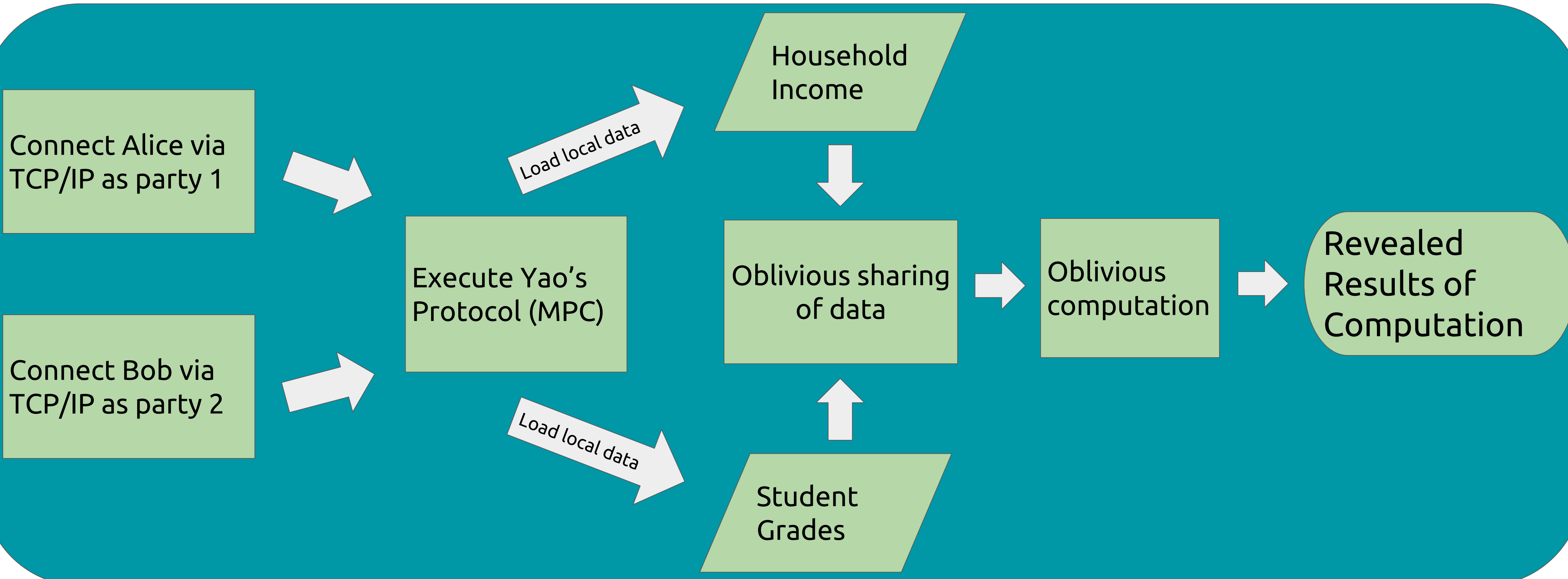
The IRS has information about incomes ("Alice")



A school district has information about grades ("Bob")

## Motivating Example:

Legal restrictions and privacy requirements prevent these agencies from releasing or combining their datasets, but MPC allows a joint data analysis.



Obliv-C (<http://oblivc.org>) makes it simple to execute MPC over TCP/IP connections and fully integrate code with C tools:

Obliv-C

```

for(int i = 0; i < n; i++) {
  oArr[i] = feedOblivInt(iArr[i], party);
}
obliv int orsqr = getOblivRSquared(oArr);
revealOblivInt(&io -> rsqr, orsqr, 0);
  
```

**Performance:** c4.large AWS EC2 nodes can carry out computation of 1 million data points in 127 minutes using Obliv-C. With current c4.large node costs, two parties can execute MPC on **10 million data points at a cost of \$4.45 in 21 hours.**

Get started developing MPC applications for social scientists:  
<http://oblivc.org/tutorial>