Bloodchain is an assets management system designed to deal with multiple points of supply and demand for the collection and transport of blood and other highly sensitive biological materials.

**Front and Back Ends**
Allow people to securely sign-up as donors and register blood type with an encrypted key. This is connected to a distributed blood bank managing supply and demand in real-time.

**Hospital Nodes**
Get access to donor info and receive notifications if desired blood type and other key data is added. Matching of request and offer depends on compatibility criteria and interests’ alignment.

**Autonomous Fleet**
Dispatches drones to people’s homes with materials for remote blood collection. These fly back to hospitals for checks and use, with guarantees of encrypted privacy for donors.

**Blood Sample**
Collected at a donor’s house

**Blood Donation Kit**
With materials for remote collection

**Bloodchain App**
For donor sign-up and data management

**Florence’ Drone**
Prepared for automatic deployment

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**Economic** - How would existing transport systems be affected by new coordination systems which streamline and optimize supply and demand?

**Social** - How could the transport of sensitive materials through autonomous fleets impact people’s trust in their collection and delivery?