# Challenge 2: Identity and Consent Management

**Develop tools and techniques that facilitate the effective and efficient delivery of humanitarian aid, in accord with the European Union’s General Data Protection Regulation (GPDR) on digital identity and data management.**

*Descriptive Vignette:*

A non-governmental organization is planning to distribute disaster aid in the form of cash to a local population experiencing famine and malnutrition. Prior cash distributions have been problematic because specific individuals are hoarding cash distributions by repeatedly requesting aid (double and triple dipping), leaving others with none.

This organization is looking for lightweight mechanisms to deliver aid to anonymous recipients, while being able to verify the number of distributions that each recipient received and to prohibit double dipping.

# Potential Applications

* Facilitating faster and cheaper international payments
* Providing a secure digital infrastructure for verifying identity

# Conceptual Design

Develop a conceptual design to demonstrate use blockchain technology for providing financing before the event occurs and other potential applications.

The conceptual design should include an outline or sketch of a realistic approach to deployment and stable operation of the identity system, including a:

* Business model
* Legal framework
* Technology architecture
* Deployment plan

# Criteria and Judging

Teams are expected to:

* Pitch their project idea at hackathon through a 3-minute presentation with 2-minutes of Q&A.
* Submit PDF version of presentation on <http://bit.ly/2018fdpitchsubmit>
* Upload their final project materials through a GitHub <https://github.com/mitmedialab/MIT-Humanitarian-Hack> repository under an open source license.

Judging criteria will include:

* **Overall Quality of the Idea and Delivery**

Project addresses problem statement, is innovative, and is communicated effectively. Benefits / improvements are clearly articulated and realizable.

* **Creativity in Application of Tech Innovation**

Project has high creativity, design and originality with strong feasibility.

* **Desirability, Impact and Business Viability**

Project is a viable business idea and could potentially disrupt or significantly improve the

particular aspect of the finance world in question.

* **High Level of Technical Feasibility**

Project is highly feasible and implementable. Features a good working model which can either be a sophisticated implementation, working prototype, a diverse use of APIs, a wizard-of-oz presentation or a simple system model.

* **Ability to apply the system within the**[United Nation’s Sustainable Development Goals](http://www.un.org/sustainabledevelopment/sustainable-development-goals/).

Context Reference Links:

### [Home Page of EU GDPR](https://www.eugdpr.org/)

### [Consent management under the GDPR - EU GDPR Compliant](https://eugdprcompliant.com/consent-management/)

### [Open Data Institute: The ODI](https://theodi.org/)

### [Asilomar AI Principles - Future of Life Institute](https://futureoflife.org/ai-principles/)

### [Open Government - Data.gov](https://www.data.gov/open-gov/)