How is data being used for social good and systematic change? 4 Methods

### Artificial Intelligence

AI methods like machine learning feed large amounts of data into an algorithm & allow it to adjust itself and improve. AI can help to quickly analyse large amounts of data and make predictions.

Artificial Intelligence in Medical Epidemiology (AIME) analyses public health data, weather reports, social media for rumour reports and more to help forewarn governments of disease outbreaks.

### Data Warehouses

Data warehousing collects vast amounts of data from different sources across a given sector or issue area, allowing to be quickly analysed together.

Global Emancipation Network collects data on human trafficking from law enforcement services, NGOs & more from around the world, enabling holistic analysis & insights.

### Predictive Algorithms

Can be used to improve human decision-making by mining large amounts of data from similar cases & making suggestions based on predicted outcomes.

The Allegheny Family Screening Tool uses uses predictive modelling based on eight data sources to help improve child welfare call screening decisions.

### Real-Time Monitoring

Data is harnessed from various sources - cell phones, satellites, sensors & social media - & presented in real-time, allowing decisions to be made with the most up-to-date data.

AIR Louisville distributed smart inhalers to asthmatic residents and placed sensors around the city to monitor air quality in real-time to allow more effective responses to air quality issues.

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Read the [global scan here](#) highlighting how data is being used for social good, the challenges in this field and how philanthropy is and can be engaging in this work.

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