

# Development, Ethics and Technology

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## Our Responsibility

The number of  
chronically  
malnourished  
people > 1 billion

18 million die of  
poverty related  
causes

The poorer 50 %  
of the world  
population is on  
3% of the global  
household income

## Problems of the 21<sup>st</sup> Century: engineering challenges

- Clean Drinking Water
- Food Production
- Climate Change
- Overfishing
- Toxic Waste
- Deforestation
- Renewable energy
- Affordable health care for all
- Modern Warfare and conflict mangement
- Mobility and Transport
- Quality of Life in Modern Urban Areas anmd Migration
- Internet Governance
- Privacy vs. Security

## UN Millennium Goals

- Poverty reduction
- Primary education
- Gender Equality
- Infant mortality
- Maternal Health
- Combat disease
- Global sustainability
- Global development



# Life straw

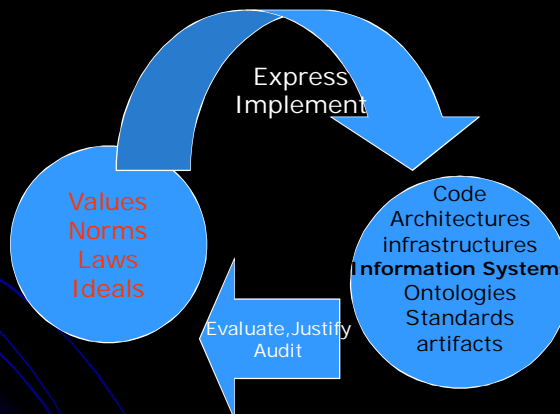
- Drinkwater voor ontwikkelingslanden



## III. Value Sensitive Design

Design for development  
Design for justice and Equality

- Equality
- Justice
- Responsibility
- Privacy
- Accountability
- Agency
- Autonomy
- Sustainability
- Safety



- Energy systems
- Food production
- Watermanagement
- Oiltankers
- Airplanes
- Reactors
- Roads
- Internet
- Electricity Grids
- Hospitals

## Design for Global Justice

- Value Sensitive Design
- Incentivizing Ethics (Pogge), Morivating Morality (Goodin)
- Institutional
- Technological
- Systems
- Design and re-design perspective
- Responsible Innovation (Dutch Research Council)