#### Imperial College London

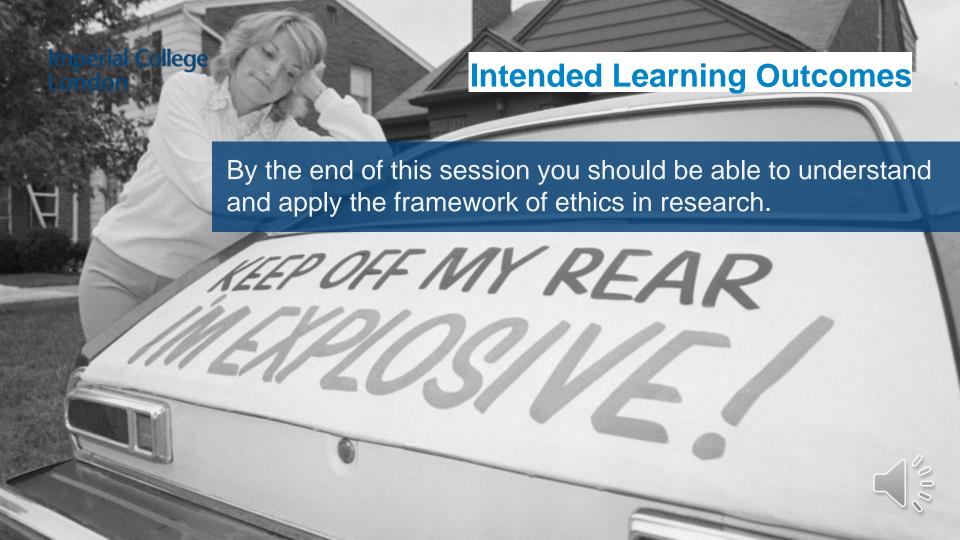
# Design and Professional Practice 2

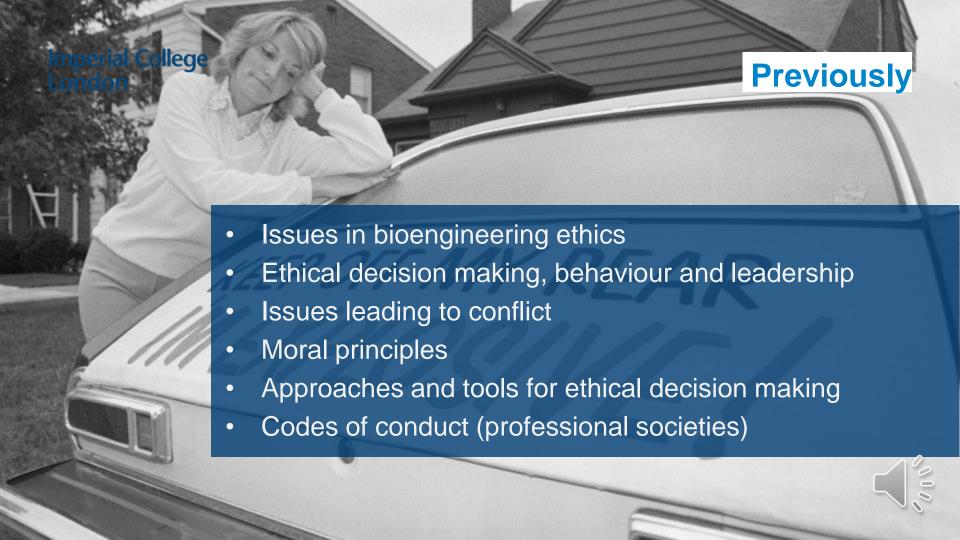
**Engineering Ethics** 

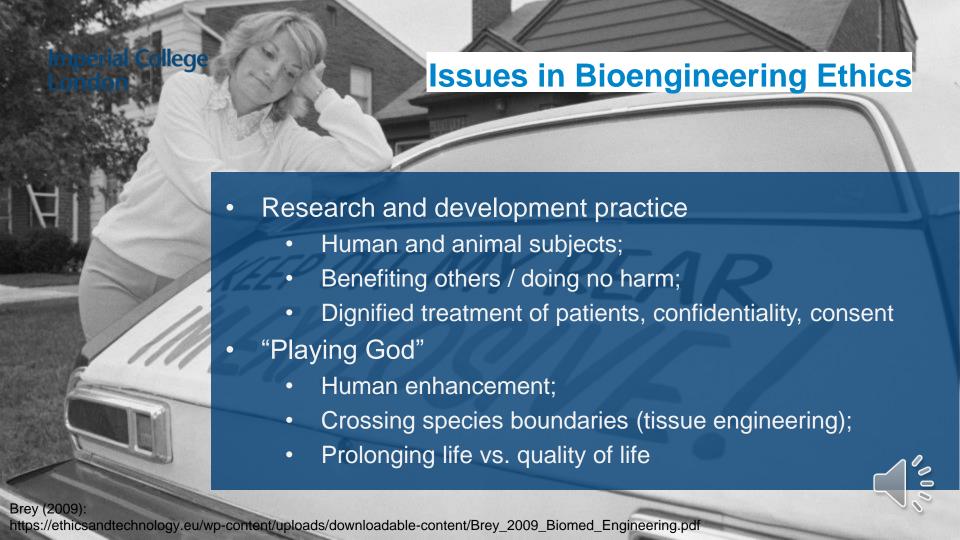
Dr Ian Radcliffe













- Prostheses and implants (mechanical and neural)
  - Human identity and dignity;
  - Materials testing;
  - Individual autonomy (control of cognition and mood)
- Biomedical (diagnostic) imaging
  - Excess diagnoses;
  - Brain imagining and mental states / mind reading?
- Wider implications of emerging technologies
  - Al;

ea

- Nanotechnology;
- In vitro meat



Brey (2009):



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### **Skills for Ethics**

#### **ETHICS EDUCATION**

debates, anecdotes, role plays, moral frameworks, conflict analysis, group work reflection, thinking tools

reflection on personal beliefs, values and motivation, self and societal understanding, moral reasoning and critical thinking

#### LEADERSHIP DEVELOPMENT

Practice of Authentic (Group) Leadership

1

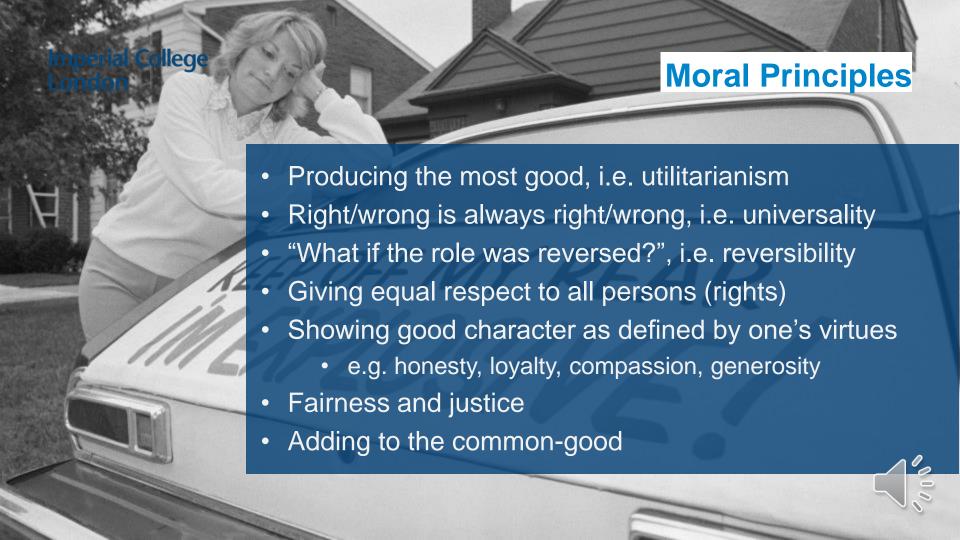
Development of Authentic (Self-) Leadership

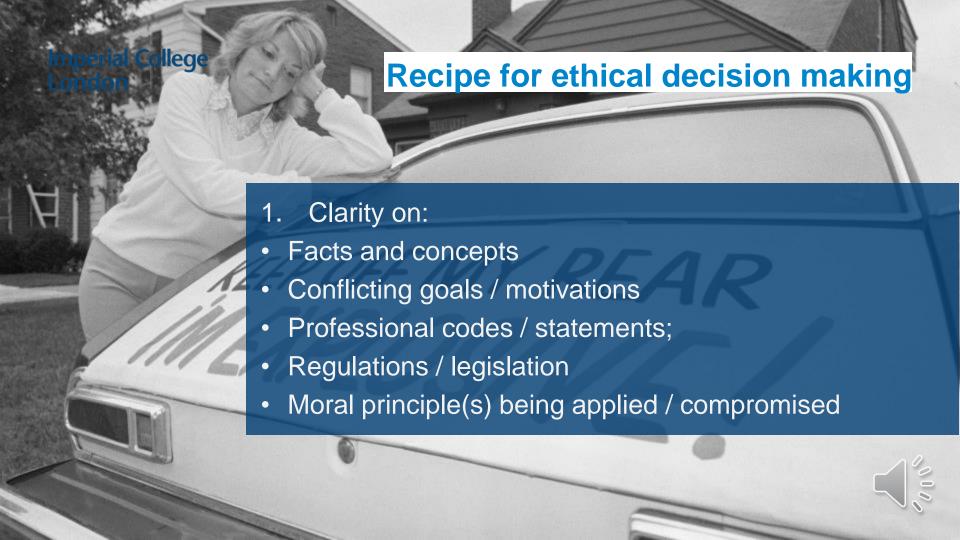
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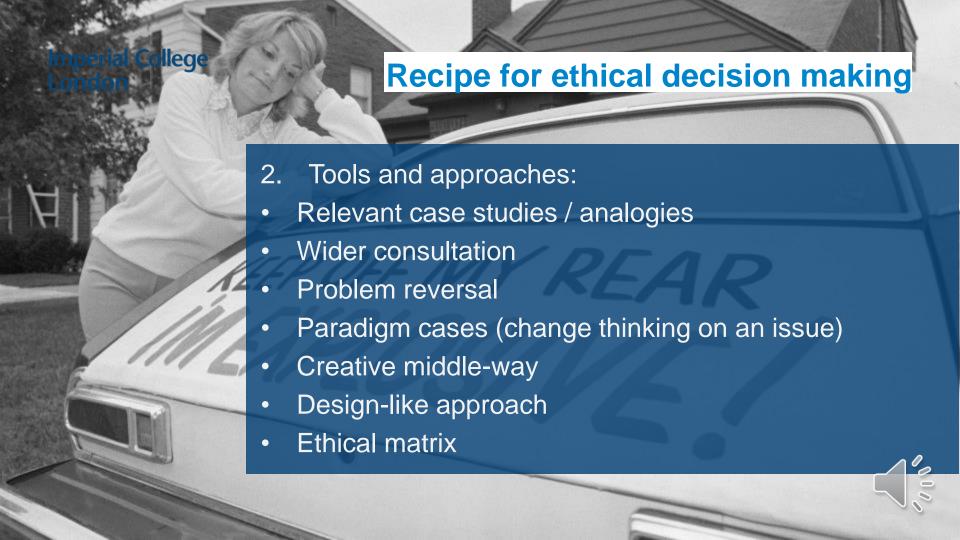
Objective Appraisal of Beliefs self-awareness self-beliefs stereotypes











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## Recipe for ethical decision making

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Respect for:	Wellbeing	Autonomy	Justice	
Treated Organism	e.g., Animal welfare	e.g., Behavioural freedom	Intrinsic value	
Producers (e.g., farmers)	Adequate income and working conditions	Freedom to adopt or not adopt	Fair treatment in trade and law	
Consumers	Availability of safe food; acceptability	Consumer choice, e.g., labelling	Universal affordability of food	
Biota (fauna and flora)	Protection of the biota	Maintenance of biodiversity	Sustainability of biotic populations	
Section 1 and 1	3 11			

Ethical matrix



