

ATTACHMENT F.

TECHNOLOGY AND CONSEQUENCES

F.1 – Innovation Trajectories

F.2 – Human Genetic Modification

F.3 – The New Politics of Artificial Intelligence

F.4 – Human Augmentation and Related Topics

F.5 – Extraterrestrial Colonization

F.6 – Technocracy: Culture, Ideology, Power and Politics

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TECHNOLOGY AND CONSEQUENCES

Technology is any artifact created by humans with a purpose in mind. This Attachment considers six topics:

F.1. Innovation Trajectories - This section reviews past and recent attempts to identify and understand possible trajectories of technological innovation and asks whether it's possible to usefully forecast aspects of technological innovation over periods of several decades or longer.

F.2. Human Genetic Modification - This section addresses the many new practices and proposals for modifying human genes, along with their societal, political and policy implications.

F.3. The New Politics of Artificial Intelligence – This material reviews the efforts of those working in the field of artificial intelligence to build social and political power intended to influence decisions about the future of AI technology and more broadly the future of the human species and the human community. Special attention is given to several networks within the field of AI whose core interests diverge and who are competing for influence even as they cooperate in other regards.

F.4. Human Augmentation and Related Topics - Human augmentation is the practice or condition of using technology to improve, extend or otherwise modify some aspect of human performance or appearance. This excludes modification for medical reasons, which is intended to ensure or restore normal health or well-being. This section addresses human augmentation *other than* that performed via genetic or AI technologies.

F.5. Extraterrestrial Colonization - This section focuses on proposals to establish a permanent human presence on natural or constructed sites beyond earth orbit. It includes discussion of non-crewed spaceflight and scientific or commercial crewed spaceflight understood as preparation for human extraterrestrial colonization.

F.6. Technocracy: Culture, Ideology, Power and Politics - *Technocracy* is a *political ideology* that calls for governance by technical experts who rely as much as possible on technological solutions to social problems. More broadly, *technocracy* obtains when technology, technological values, the technological mindset and technology interests play the lead role in shaping social, cultural, political, economic and other behaviors and institutions.