



# Human Practices

IN PRACTICE



# Where I'm Coming From

A (Very) Brief History of a Problem

Can Bioethics be Strategic?

Or, how should we increase capacities?

Geron  
BIO  
SyBERC



# What We Planned For

Human Practices In Practice

# Practice

What does it mean to be strategic?

# Pedagogy

What do newcomers need to know?

# Preparation

How do we get ready for big decisions?

# Parameterization

How can human practices shape our work?



# Human Practices Reports

Parts

What are we going to make?

iGEM

Who do we support?

O.T.P.

How do we share?

# What We Didn't Plan For

Human Practices In Practice

# Designed Synthetic Genomes

If this is software making hardware, what is the operating system?

# The Waxman Hearings

What happens if there is a negative event?

# President's Commission

What's at stake in synthetic biology?

# Being a Fabrication Facility

What is the relation between producing and understanding?

# Being a Public Benefit Facility

What are we making and who are we making it for?

# Making our Work Open

How do we give away our technology platform such that:

1. No one has to worry about freedom to operate
2. It is useable, reusable, and recursive
3. It is responsible, just, and caring





Where We Need You  
Advice, Cooperation, Collaboration

# Near Term Puzzles

O.T.P., Preparedness, Community

# O.T.P

1. How should we give the OTP away?
2. How can we give the OTP away?
3. Should we give the OTP to extra-institutional engineers?

# Preparedness

1. How do we get people on board?
2. How do we interface with safety-by-design?
3. How do we get beyond a dual-use framing?

# Community

1. How should we engage with extra-institutional engineers?
2. What is the balance between ameliorating current work and bringing in new users?



# Partnerships Needed

Global Governance, Risk, Cultivating Publics

# Global Governance

We have HP partners in:

- London
- Paris
- Vienna
- Oslo
- Los Angeles
- Washington

We need HP partners in:

- China
- India
- Singapore
- Brazil
- And so on,
- And so on...

# Risk

We would really like it if someone worked on:

1. Better methods for calculating risk in synthetic biology
2. Synthetic biology, biomass and land use



# Cultivating Publics

And also on:

1. The shift from perception to participation
2. The BIOFAB and Community Labs
3. The BIOFAB and Civil Society



Thanks