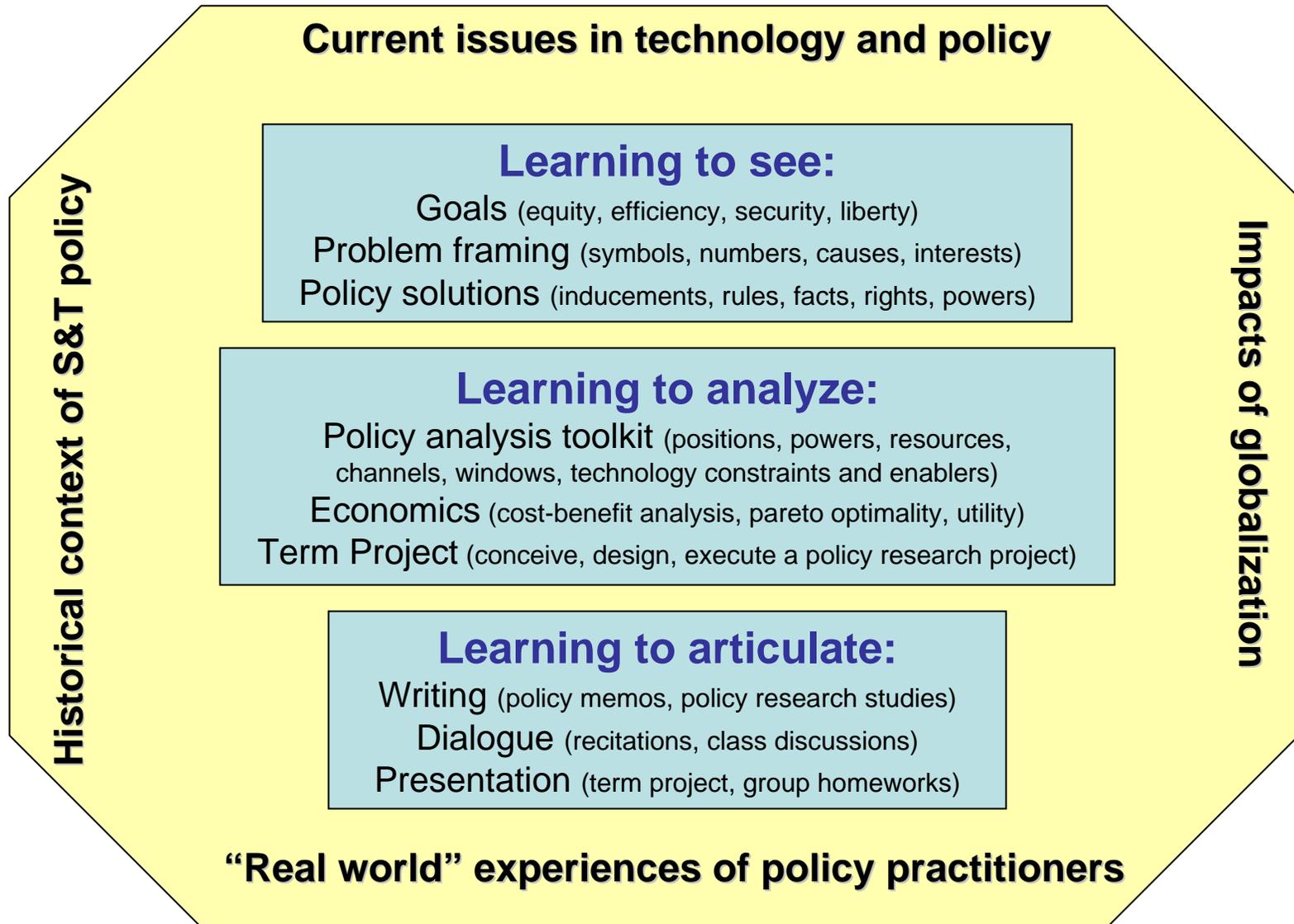# ESD.10 Class Materials

Lecture 4

September 18, 2006

ESD.10 Meta-Learning Objective: Appreciate the political, social, and institutional context of technological systems

Current issues in technology and policy

Historical context of S&T policy

Impacts of globalization

Learning to see:
Goals (equity, efficiency, security, liberty)
Problem framing (symbols, numbers, causes, interests)
Policy solutions (inducements, rules, facts, rights, powers)

Learning to analyze:
Policy analysis toolkit (positions, powers, resources, channels, windows, technology constraints and enablers)
Economics (cost-benefit analysis, pareto optimality, utility)
Term Project (conceive, design, execute a policy research project)

Learning to articulate:
Writing (policy memos, policy research studies)
Dialogue (recitations, class discussions)
Presentation (term project, group homeworks)

"Real world" experiences of policy practitioners

Review of Assignment #2

- What's the real problem that you identified in your memo?

- What are potential courses of action for dealing with the problem?

- What are the pros and cons of each course of action?

- Which course would you recommend?

Policy Strategy and Instruments

- Inducements

- Rules

- Facts

- Rights

- Powers