

# INTRODUCTION

Critical & Activist Science Education (CASE) is an action research project aiming to learn - from 2019 to 2023 - about decisions by science educators in uses of very important findings from Science & Technology Studies (STS) that involve adverse effects of influences of powerful people and groups on science and technology and other entities and actions people have taken to overcome related harms.



A STEPWISE Project  
(www.stepwiser.ca)

is marketed to males led them to develop a network map of relationships among, for example, cologne, corporations, miners, etc. - which then led them to develop actions to change different aspects of this network affecting people's choices about cologne.

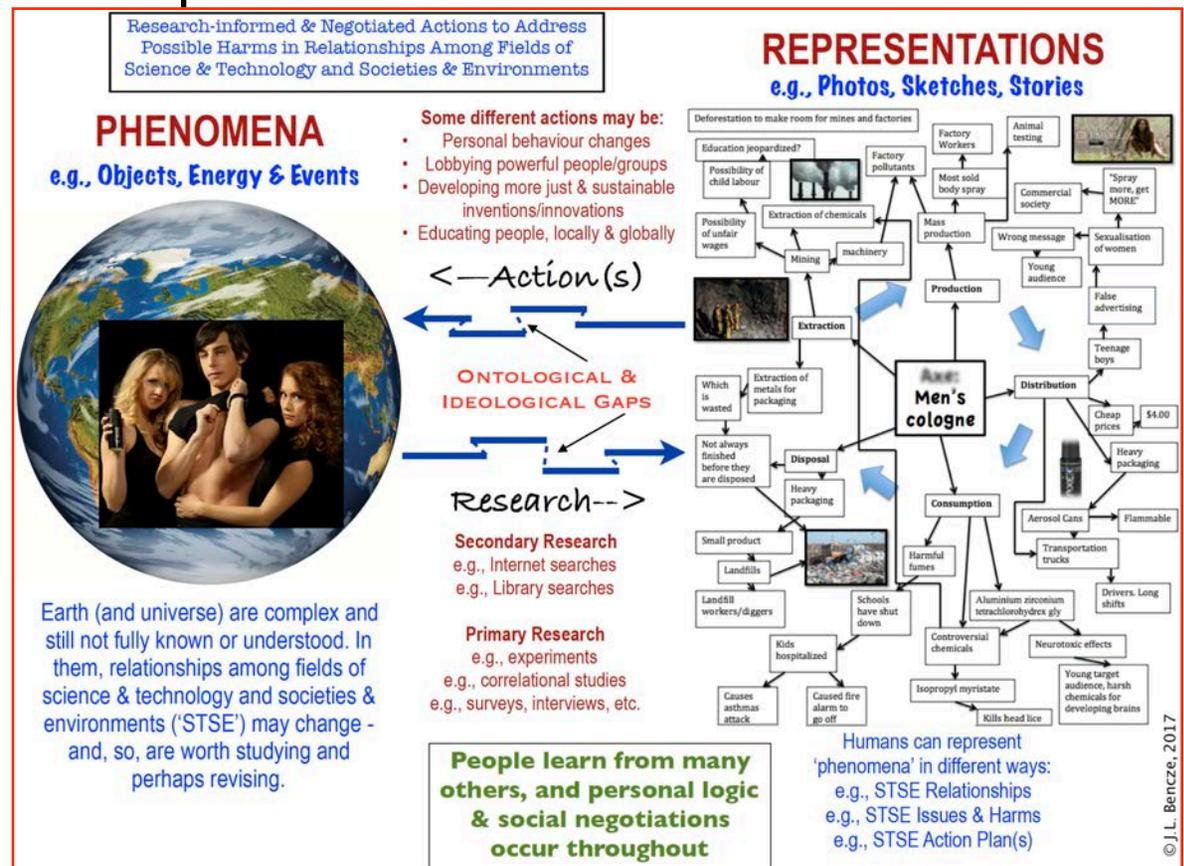
This project will involve analyses of STS publications, consultations with STS scholars, science teachers and others as we develop and evaluate such teaching and learning materials, which we plan to field-test in science courses.

# RESEARCH FOCI

STS scholars specialize in studying many different contexts involving fields of science and technology (S&T) - findings of which are very important for informing teaching and learning goals and methods that S&T students should learn.

The CASE project focuses on an extremely important aspect of STS scholarship; that is, findings that relate to personal, social and environmental harms that often are linked to for-profit commodities (e.g., cell phones, manufactured foods, weapons, cosmetics, etc.) and likely due to influences of powerful people (e.g., financiers) and groups (e.g., corporations & governments) on fields of science and technology (and engineering & mathematics, etc.).

Foci on adverse influences of powerful people and groups on science and technology tend to be compromised in science education curricula and practices. However, such education is extremely important in democracies - enabling students to develop and implement well-informed actions to address such power-related harms. As illustrated at right, for instance, students' research into a popular cologne that often



To learn more about this study and/or to get involved in it, contact: [larry.bencze@utoronto.ca](mailto:larry.bencze@utoronto.ca).