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Integrating Sustainability Concepts into Engineering/Science Education

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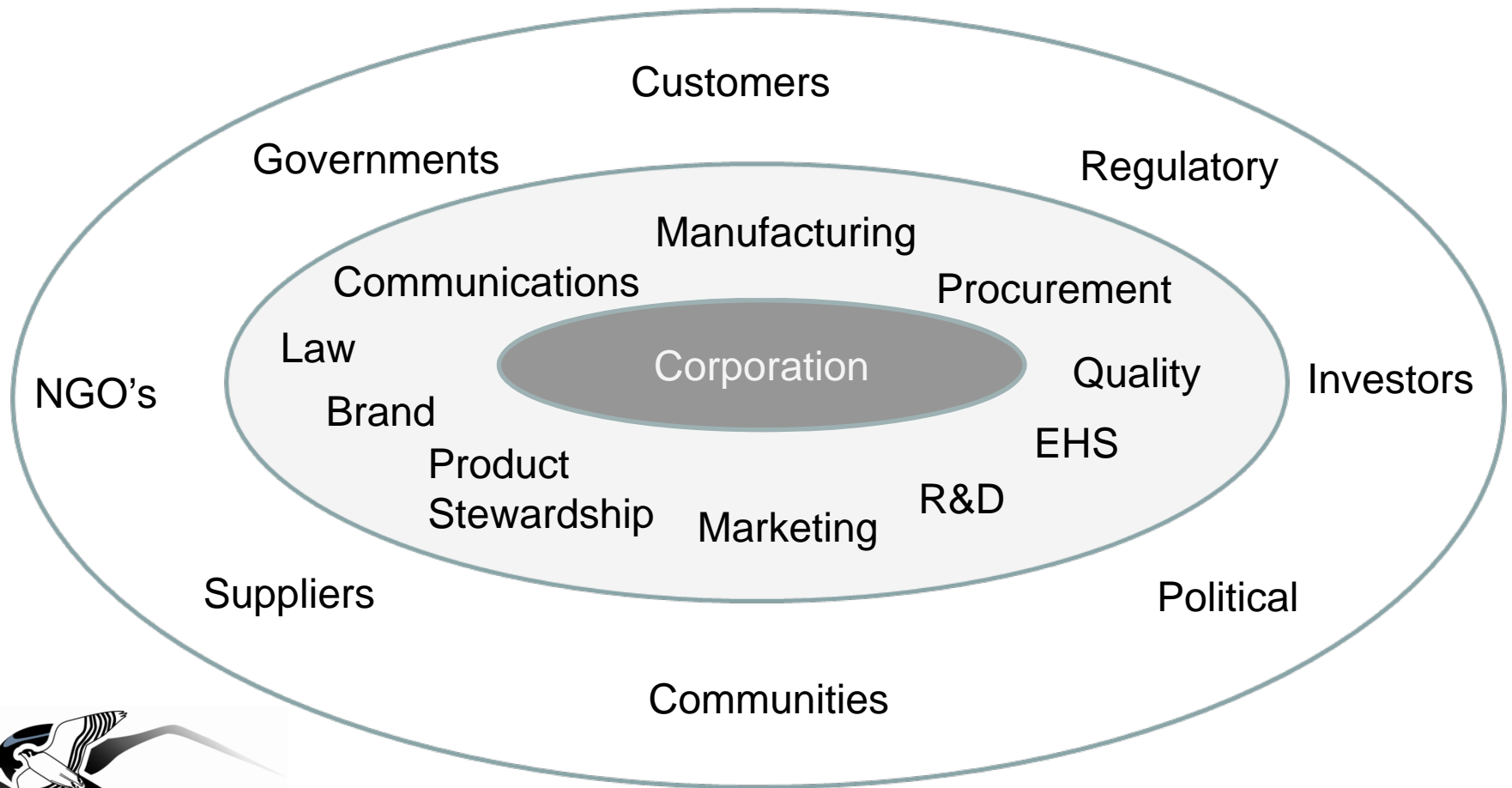
Management Systems • Risk and Liability Management • Process Improvements

Corporate Challenges

- Silo nature of corporate structure/function
- Interdisciplinary collaboration – understanding/valuing what other disciplines bring to table
- Useful performance metrics – economic & social in particular
- Language of business – communicating in terms that non-technical business functions can understand
- Impacts of decisions/external forces – ripple effect



Holistic Thinking



Desired Skills

(In addition to the fundamentals)

- Collaborators that bridge organizational boundaries – systems approach
- Communicators that can put technical items/issues into understandable, non-technical terms – written and verbal
- Technical contributors with an appreciation for the soft sciences
- Context providers – impacts/risks



Communications

- Terminology around ‘sustainability’ is currently confusing at best
- Avoid using ‘sustainability’ as the answer
- Ability to communicate in **non-technical terms** an understanding of and sensitivity to the **ethical, economic, environmental and social impacts** of a design, process, or product



Thanks!

