ILTAM Green Directives and Sustainable Design

A future look over regulations affecting production and design.

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Agenda

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How it all comes together – Regulation Cycles

2 – Circular Economy

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EU Initiative

3 – Carbon Foot-Printing

What is Carbon Foot Printing

Life Cycle Assessment

4 – Energy Efficiency Directive EED

What is EED

How to EED

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1 – Preview

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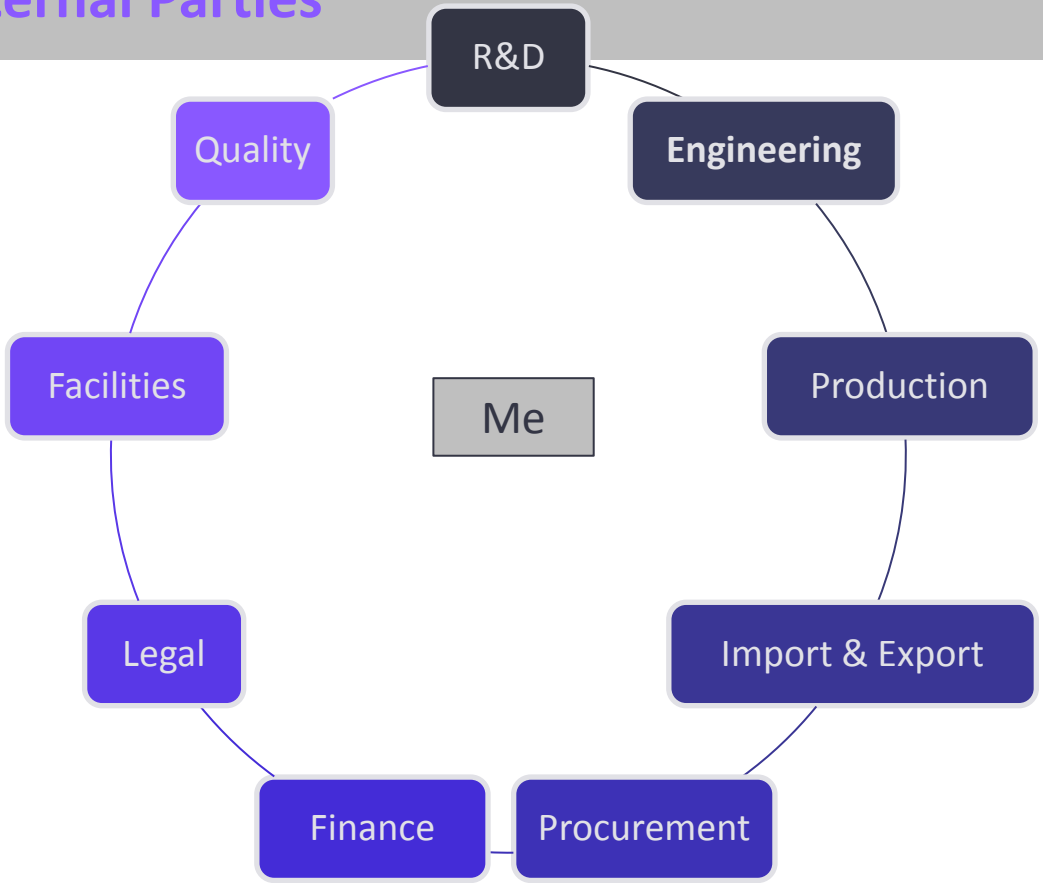
Who's Who – Internal Parties



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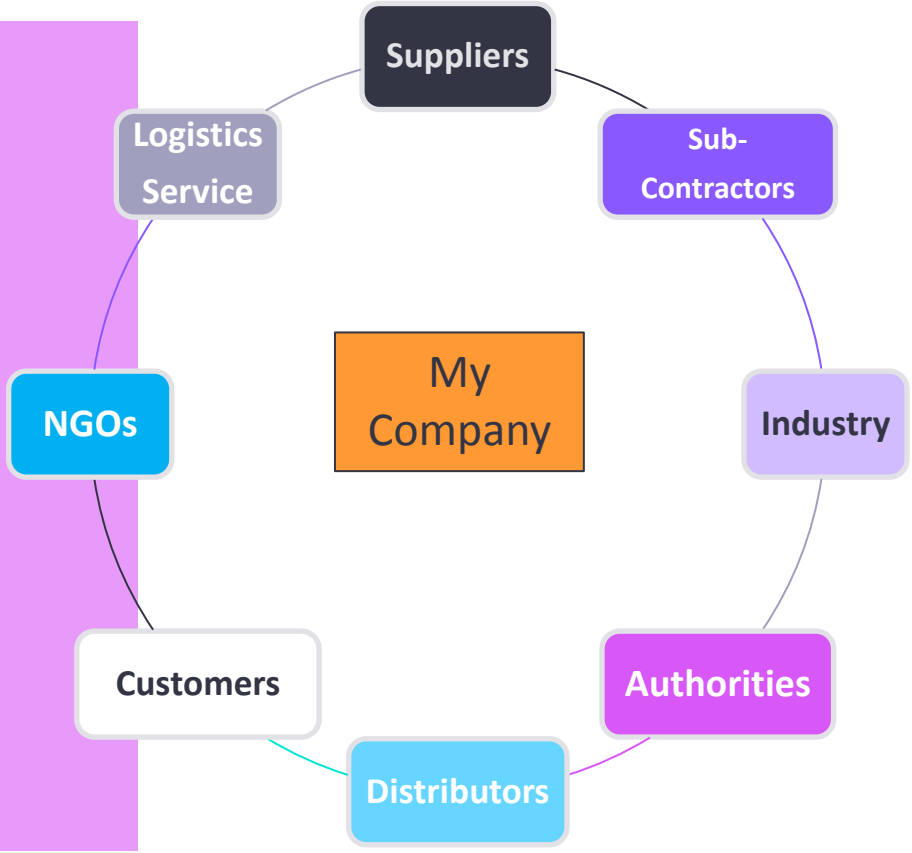
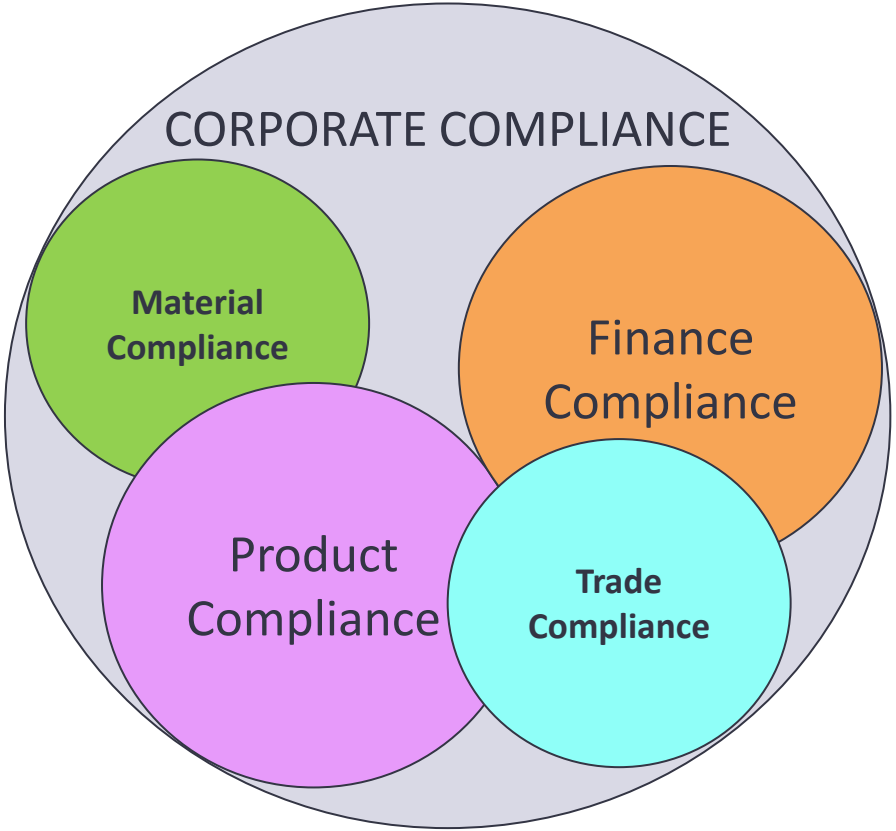
Who's Who – External Parties




CORPORATE COMPLIANCE
Material Compliance
Finance Compliance
Product Compliance
Trade Compliance

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2 – Circular Economy

Links:

Re-thinking Progress- The Circular Economy:

https://www.youtube.com/watch?v=zCRKvDyyHmI&nohtml5=False

The circular economy - a transformation for all?

https://www.youtube.com/watch?v=euWkYMlJyY8&nohtml5=False

Circular Economy

"The **circular economy** is a generic term for an industrial economy that is producing no waste and pollution, by design or intention, and in which material flows are of two types,
biological nutrients, designed to reenter the biosphere safely, and technical nutrients, which are designed to circulate at high quality in the production system without entering the biosphere as well as being restorative and regenerative by design" (Source: Wikipedia)

Circular Economy EU Initiative

On the 2nd of December 2015 the EU Commission adopted an ambitious new Circular Economy Package to stimulate Europe's transition towards a circular economy which will boost global competitiveness, foster sustainable economic growth and generate new jobs

Read more:
http://europa.eu/rapid/press-release_IP-15-6203_en.htm

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3 – Carbon Foot-Printing

Carbon Foot-Printing

Table 1. Kyoto Gases (IPCC 2007[2]).

Greenhouse Gas		Global Warming Potential (GWP)
1.	Carbon dioxide (CO_2)	1
2.	Methane (CH_4)	25
3.	Nitrous oxide(N_2O)	298
4.	Hydrofluorocarbons (HFCs)	124 – 14,800
5.	Perfluorocarbons (PFCs)	7,390 – 12,200
6.	Sulfur hexafluoride (SF_6)	22,800
7.	Nitrogen trifluoride (NF_3)[3]	17,200

- Carbon footprint is the amount of Green House Gases (GHG) emitted in a process.
- Carbon footprint is measured in tones of CO2 – other gases emission are converted to CO2 (e.g. 1xMethane = 25xCO2)
- GHG emitted are suspected to be a major contributed to Climate Change aka Global warming

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Life Cycle Assessment "From Cradle to Grave"

A **LIFE-CYCLE ASSESSMENT** (**LCA**, ALSO KNOWN AS **LIFE-CYCLE ANALYSIS**, **ECO-BALANCE**, AND CRADLE-TO-GRAVE **ANALYSIS**) IS A TECHNIQUE TO ASSESS ENVIRONMENTAL IMPACTS ASSOCIATED WITH ALL THE STAGES OF A PRODUCT'S LIFE FROM-CRADLE-TO-GRAVE

Product Life Cycle Example (Car production)

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Carbon Foot-Printing – Calculation

Flight:
1 Flight from Tel Aviv (Ben Gurion) to New-York (JFK) – round trip
Total Flights Footprint = 2.53 tonnes of CO2e

Car:
30,000 Km in Ford Focus 1.6 Automatic
Total Car Footprint = 5.04 tonnes of CO2e

House:
3,000 Kwh of electricity (Israel)
Total House Footprint = 2.30 tonnes of CO2e

Calculator:
http://www.carbonfootprint.com/calculator.aspx

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4 – Energy Efficiency Directive – EED (2012/27/EU)

EED Energy Efficiency Directive 2012/27/EU

The 2012 Energy Efficiency Directive establishes a set of binding measures to help the EU reach its 20% energy efficiency target by 2020. Under the Directive, all EU countries are required to use energy more efficiently at all stages of the energy chain from its production to its final consumption.
EU countries were required to transpose the Directive's provisions into their national laws by 5 June 2014.

Starting December 5, 2015, all large enterprises would be required to undergo an energy audit. These audits should be carried out every four years by qualified and accredited experts.

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EED
Energy Efficiency Directive

Read More:
http://eedguidebook.energycoalition.eu/

EED
Energy Efficiency Directive

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Thank you

End