Circular Economy & EcoDesign

What is the idea behind a Circular Economy and how can we contribute to it? Can we integrate a cradle-to-cradle approach in product development &

project design?

Expert Name: Maya Karkour

Co-founder

EcoConsulting



Short Profile: Maya Karkour is the Managing Director of EcoConsulting which she cofounded in the UK in 2003, and established in Lebanon in 2008. EcoConsulting offers interrelated sustainability services to the construction sector, including: LEED & BREEAM certifications, energy-efficiency advice, dynamic thermal modeling, eco-building guidance.Maya oversees or has directly worked on numerous projects aiming at reducing their environmental footprint –including the eco-renovation of Casa Batroun, first project in the Middle-East to achieve the British BREEAM "Excellent" certificate in February 2014, and the Lebanese Architects Sustainability Award in 2017.

Maya holds an MSc (hons) in Environment from the London School of Economics & Political Science and is a LEED Accredited Professional, BREEAM Licensed Assessor, and Low Carbon Energy Assessor.Maya is currently the Vice-President of the Lebanon Mountain Trail Association, in charge of developing and implementing Environmental Education activities, working with the Ministry of Education & public schools. She is also a main local mentor for the SwitchMed Green Entrepreneurship program, and a fellow of the Aspen Middle East Leadership Initiative.

		1	
	Definition / Benefits		Constraints / Challenges / Barriers
✓	Circular economy: Move out from the	✓	Lack of awareness, "Green" term
	linear economy which produces too		misinterpreted, even cultured people
✓	much waste & does not think upfront	~	
	about products end-of-life & waste		society & only-for-growth corporate
✓			objectives
✓	P P.	✓	Credible Eco-Labels are usually difficult &
	ideally transformed in Technical		costly to obtain
	Nutrient	√	
✓	8	✓	······································
	as Inputs into same or other		chain has to be sustainable- not just
✓	production processes or the		the end product $ ightarrow$ making it much
	earth/ecosystem, thus less usage of raw		harder to eco-design as eco-suppliers &
✓	materials, less toxicity, drastic waste		environmental procurement is almost
	reduction		inexistent or hard to find or costly
✓	How to dispose of the product after it is	✓	Lack of training/ local skills/
	produced?		professionalism
✓	, we encompasses seems ashees a	✓	
	production: not/less harmful, not/less		financially viable when competition does
✓			not
\checkmark			adopt same ethics and standards,
	Life-cycle Assessments (LCA)		however often creative eco-design
✓	Requires following thorough EcoDesign		manages to drastically reduce production
	considerations/principles, such as		costs along the chain by enhanced
✓			eco-efficiency
	Biodegradability / Longevity / Durability	\checkmark	Initiatives are still too small need to grow
✓	Reduced Packaging / Modularity /		movement & shift mentalities
	Disassembly / No or minimum Materials	\checkmark	Balance between impact and
✓	,		sustainability
	Best Practice / Solutions / Tools		Resources / local Availability
~	Growing international concern for air &	✓	International Circular Economy
	water pollution, climate change,	✓	movement, Events & Conferences
v	toxic waste accumulation, loss of	▼ ✓	Eco-Labels – International
	biodiversity Awareness slowly raising	v	Switchmed Eco-Entrepreneurship
	and shift of perspectives, more & more		Training and <i>SwitchMed</i> Mediterranean Platform
	consumers are demanding responsible products	✓	Low-interest loans & Financial
✓	•	v	
v		✓	incentives for eco-products (ex. Kafalat) Samir & Claude Abillama
	increased pressure from local communities, NGOs, human rights	·	Eco-Entrepreneurship Competition
	groups, environmental activists, to		(annually in Lebanon)
	comply with environmental and health	✓	
	& safety standards.		eco-businesses
~	Governments in particular in Europe	✓	
	requesting more stringent standards		(Altcity BootCamp, Elevate, BDL)
	and shifting the responsibility to the		some cater for social innovation and
	manufacturers (in particular with		eco-products/ideas
	regards to end-of-life products disposal)	✓	<i>Environmate</i> Competition
	regards to end-or-me products disposal)	-	

 Consequently, large corporations & 	 International competitions for
smaller businesses adopting sounder	eco-products/businesses
Corporate Environmental Policies &	 Some municipalities are encouraging
Corporate Social Responsibility	green projects
initiatives	✓ WWW: Online access to resources &
✓ Increased recognition of the importance	information
of Life Cycle Assessments, and Product	
Stewardship	
✓ EcoLabels – the ones which are	
well-known and credible not	
"greenwashed ecolabels" excellent tools	
for product & company credibility	
 ✓ Companies driving it: improve their 	
green credentials, eco-design while	
finding creative solutions to current	
modern issues, and enhance reputation	
by offering sounder products and good	
guarantees	
 EcoDesigning new products allow 	
penetrating new niche markets,	
catering to a growing number of	
eco-conscious concerned customers, &	
positioning a product/ service	
highlighting its health & environmental	
benefits. Offers credibility/ honesty to	
build a brand.	
 Other tools include public 	
environmental education, reliable	
sources of information (such as scientific	
LCA studies), social platforms to break	
misconceptions, social events /	
networking to collaborate & grow	
engagement in eco-design &	
eco-entrepreneurship and reach the	
public	
✓ Lobbying for regulation & enforcement	
is more & more important	