

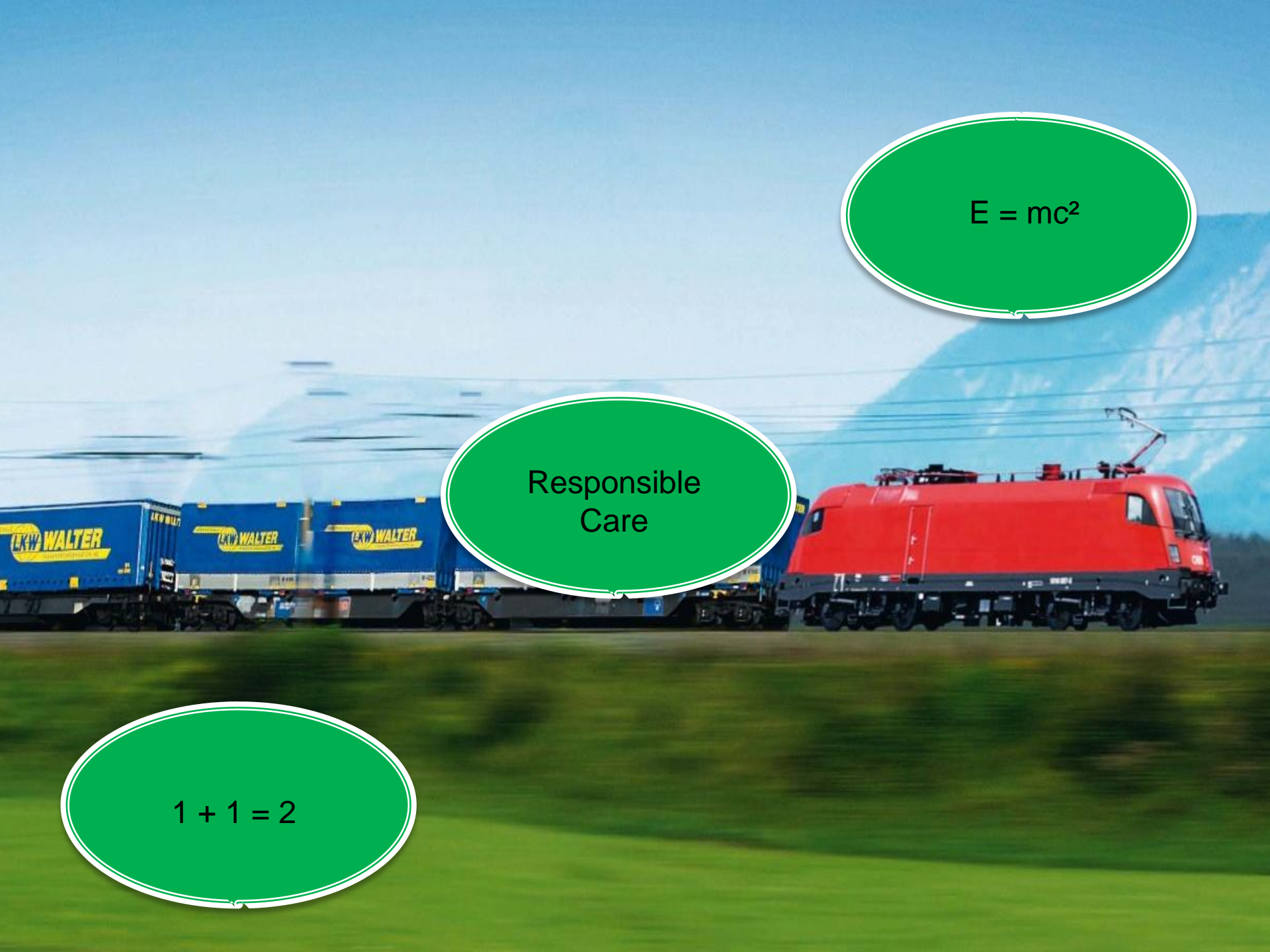


ECTA CONFERENCE 2011

Bernhard Haidacher

Wednesday 23d November 2011

Rotterdam, SS Rotterdam



$$E = mc^2$$

Responsible
Care

$$1 + 1 = 2$$

Activity Based Footprint

- ▶ What does 'Activity-based approach' mean?

... a simple formula...

CO₂

= tons transported

x average transport distance

x CO₂-emission factor per ton-km

The logo for ECTA, consisting of the letters "ECTA" in a blue, italicized serif font, enclosed within a black oval border.

ECTA

Activity Based Footprint

- ▶ **What components do you need?**
 - ▶ Number of orders
 - ▶ Number of kilometers
 - ▶ Tonnage per trip
 - ▶ Empty Return Trip Percentage
 - ▶ Splits for Road – Rail – Ferry



Activity Based Footprint – The Setup

alle Verkehrsträger Aktualisieren

Land - Land Land - Zone Zone - Land Zone - Zone

Land - Land	Snd (FTL)	km gesamt	Gewicht in kg	CO2 kg	CO2 g/toKM
Belgien - Italien	59	89.830	1.487.286	43.367	20
Schweden - Italien	27	61.931	634.276	37.989	30
Belgien - Spanien	20	38.994	504.849	30.182	34
Deutschland - Italien	18	12.504	418.973	10.637	42
Finnland - Italien	18	48.481	482.900	26.747	22
Schweden - Schweiz	17	34.323	394.680	24.860	34
Belgien - Dänemark	11	13.874	245.504	10.745	44
Schweden - Portugal	9	21.085	209.583	11.390	22
Summe aller 27 Von-Nach (Land - Land)	241	417.766	5.661.961	262.851	36

Position	Gew. (to)	Detail Strasse			Detail Trucking			Detail Bahn/RoLa		Det. Fähr-/Shortsea		CO2 gesamt	
		km voll	km leer	CO2	km voll	km leer	CO2	km	CO2	km	CO2	kg	g/toKM
8542/105/0052/001	23,9	1.586	190	1.532	0			0		0		1.532	40
8546/105/0145/001	25,2	0			289	97	321	989	60	0		382	12
8542/105/0116/001	25,2	1.861	223	1.829	0			0		0		1.829	39
8532/105/0004/001	25,3	1.602	192	1.576	0			0		0		1.576	39
8542/105/0029/001	25,3	1.866	223	1.835	0			0		0		1.835	39
8542/105/0030/001	25,3	1.928	231	1.896	0			0		0		1.896	39
8542/105/0079/001	25,3	1.914	229	1.882	0			0		0		1.882	39
20 Positionen	25,2	26.448	3.167	25.985	3.962	472	3.895	4.946	302	0		30.182	34

1.10 Datenstand: 20110529

Do you need a fully integrated solution?

Mode of Transport	Nr. of transports	average ton/transport	Tons	Avg kms (estimates!)	% of truck-kms run empty	Ton-kms	g CO ₂ /ton-km	Tons CO ₂
Road transport	200.000	22	4.400.000	200	20%	880.000.000	83,3	46.880
Rail transport	10.000	24	240.000	800		192.000.000	22	4.224
Barge transport								
Short sea	15.000	24	360.000	400		144.000.000	18	2.304
Intermodal road/rail								
Intermodal road/barge								
Intermodal road/short sea								

Or do you want it simple?

TOTAL	225.000
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5.000.000			1.216.000.000
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53.408	Tot Tons CO ₂
44	Average g CO ₂ / ton-km



Cockpit LKW WALTER

alle Verkehrsträger

Aktualisieren

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		km voll	km leer	CO2	km voll	km leer	CO2	km	CO2	km	CO2	kg	g/toKM
8302/105/0190/001	15,9	634	76	549	0			400	120	0		351	21
8308/105/0091/001	19,8	0			180	94	208	896	170	0		378	18
8302/105/0080/001	20,3	668	80	615	0			400	120	0		395	18
8306/105/0276/001	20,8	0			35	131	108	896	170	0		278	14
8322/105/0246/001	20,8	1.553	186	1.439	0			400	120	0		1.217	30
8322/105/0071/001	22,4	1.578	189	1.494	0			400	120	0		1.264	29
8322/105/0184/001	22,4	1.887	226	1.786	0			0		0		1.786	42
59 Positionen	25,2	29.424	3.521	28.181	10.103	6.110	13.020	40.672	9.248	0		43.367	20

1.10

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Cockpit LKW WALTER

alle Verkehrsträger ▾

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		km voll	km leer	CO2	km voll	km leer	CO2	km	CO2	km	CO2	kg	g/toKM
7058/105/0076/001	22,7	0			1.020	488	1.188	1.305	620	1.046	480	2.288	30
7058/105/0160/001	22,7	0			197	50	203	1.305	620	932	430	1.253	23
7058/105/0066/001	25,2	0			347	128	393	1.305	620	932	430	1.442	22
7058/105/0067/001	25,2	0			347	338	518	1.305	620	932	430	1.567	24
7056/105/0043/001	25,2	0			197	150	269	0		932	430	699	25
7058/105/0068/001	25,2	0			220	401	440	1.305	620	1.046	480	1.540	24
7058/105/0027/001	28,1	0			415	235	533	1.305	620	1.046	480	1.633	21
18 Positionen	26,8	0			7.686	3.874	9.463	19.575	9.298	17.346	7.986	26.747	22

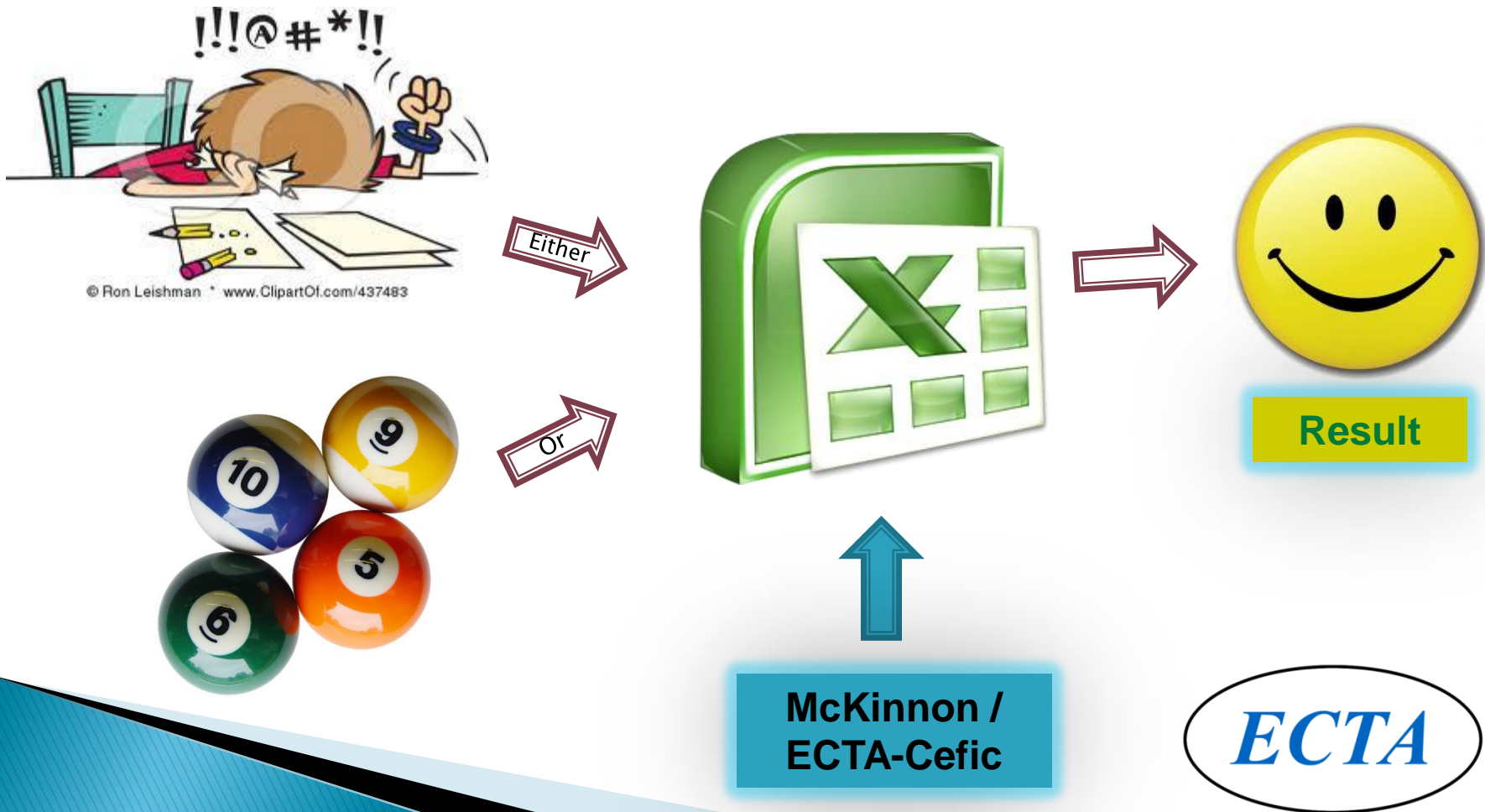
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Activity Based Footprint

▶ Activity-based components



The BLUE Horizon

**Reducing the Carbon Footprint
is a MUST for our Industry**

Thank you!

ECTA