

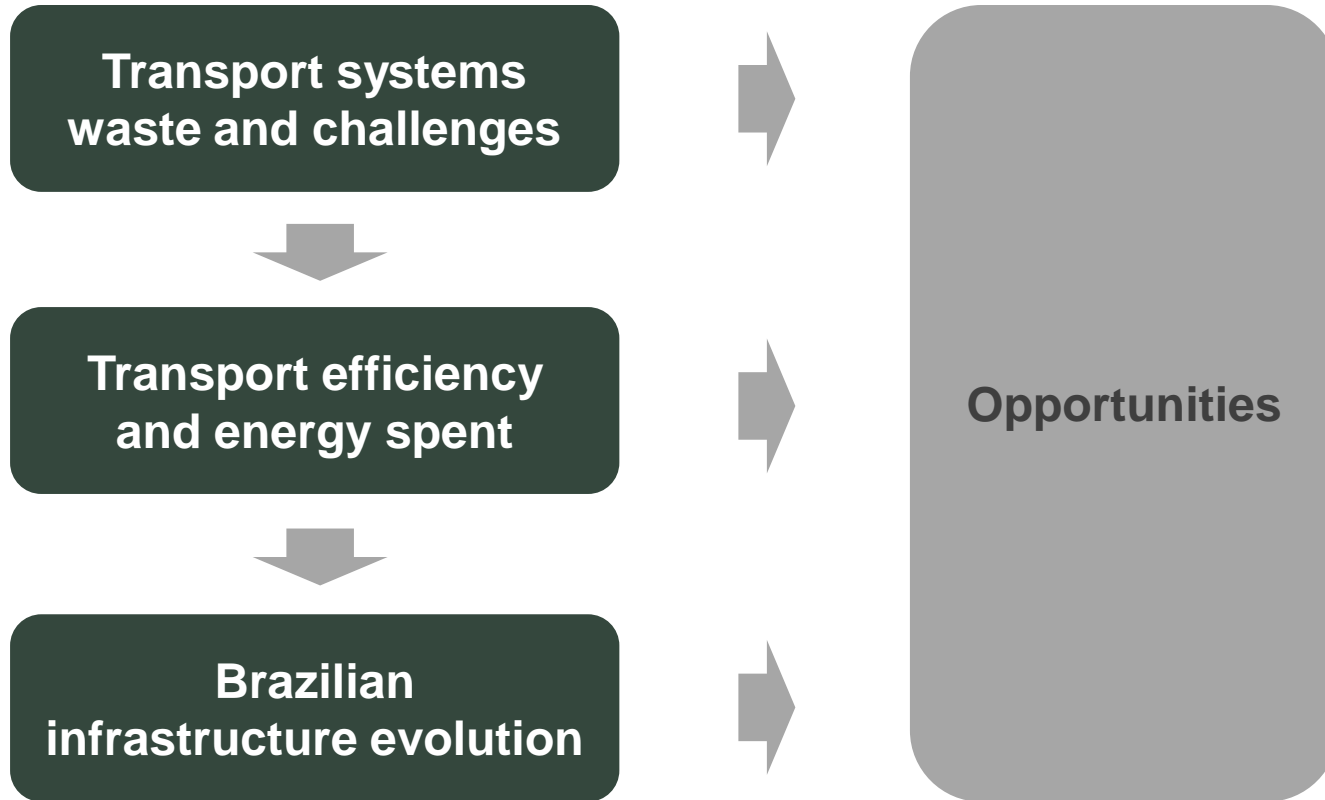
INTERNATIONAL WORKSHOP ON GREEN CORRIDORS European Experience and Brazilian Perspectives



Innovative inbound logistics for a sustainable transport

Fábio Castello

Logistics in Brazil



Brazilian Transport Efficiency

Parameters

**Economic
aspects**

Infrastructure

Safety

**Energy and
environment**

Source: DOT – US Dept of Transportation



Brazilian Transport Efficiency

Parameters

**Economic
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Source: DOT – US Dept of Transportation



*SP-55– Cônego Domênico Rangoni, SP
Acesso Rua do Adubo em Mar/2013*



Brazilian Logistics Infrastructure

Infrastructure Quality

(Brazil ranking among 148 countries)

Roads

Airports

Ports

Railways

110°

120°

101°

123°

123°

131°

86°

103°

2008

2013

2008

2013

2008

2013

2008

2013

Source: Fórum Econômico Mundial 2013: Relatório de Competitividade Global 2008-2009 e 2013-2014

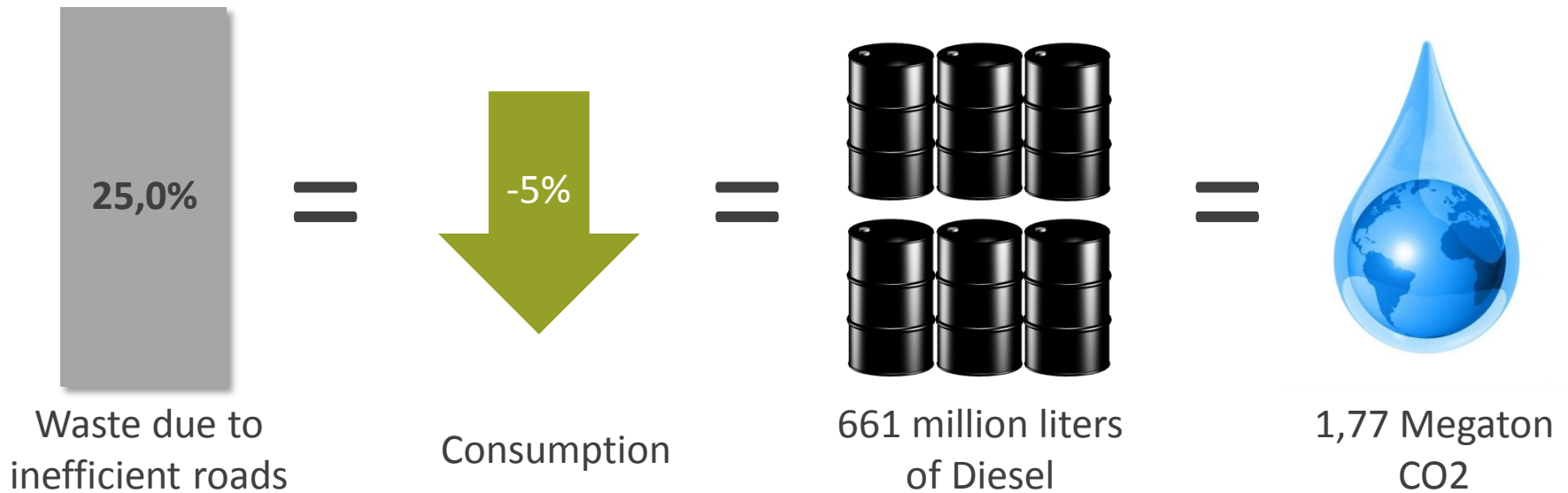




BR-158 – Santa Maria das Barreiras, PA

Brazilian Logistics Infrastructure

Environmental impacts of inefficient roads



Source: Pesquisa CNT de Rodovias 2013



Brazilian Transport Efficiency

Parameters

**Economic
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environment**

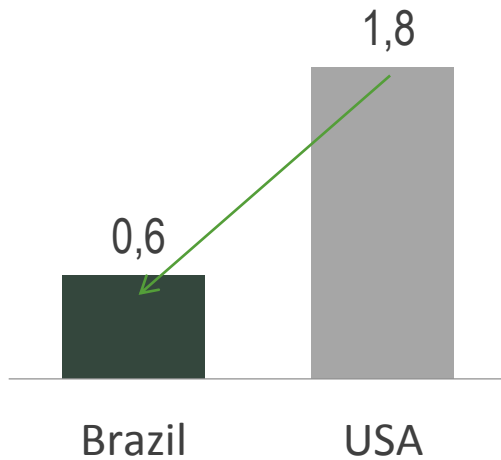
Source: DOT – US Dept of Transportation



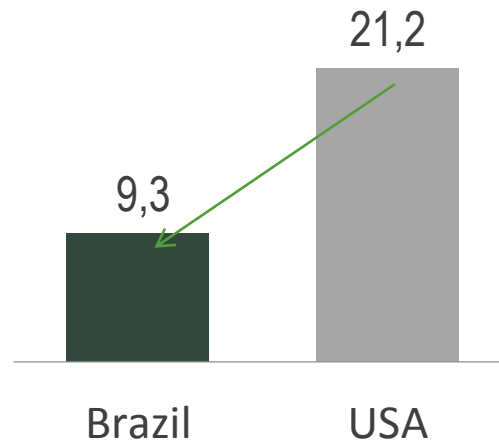
Brazilian Transport Efficiency

Productivity (Million TKU per employee)

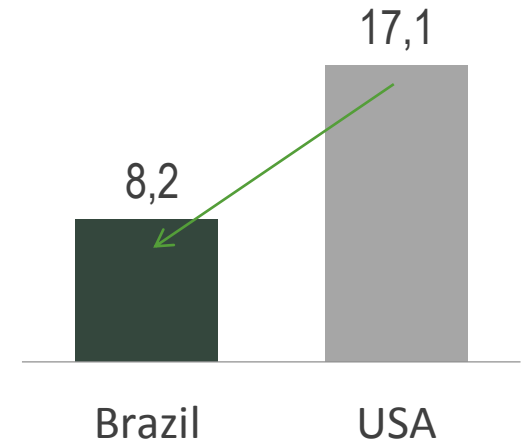
Road



Railway



Waterway

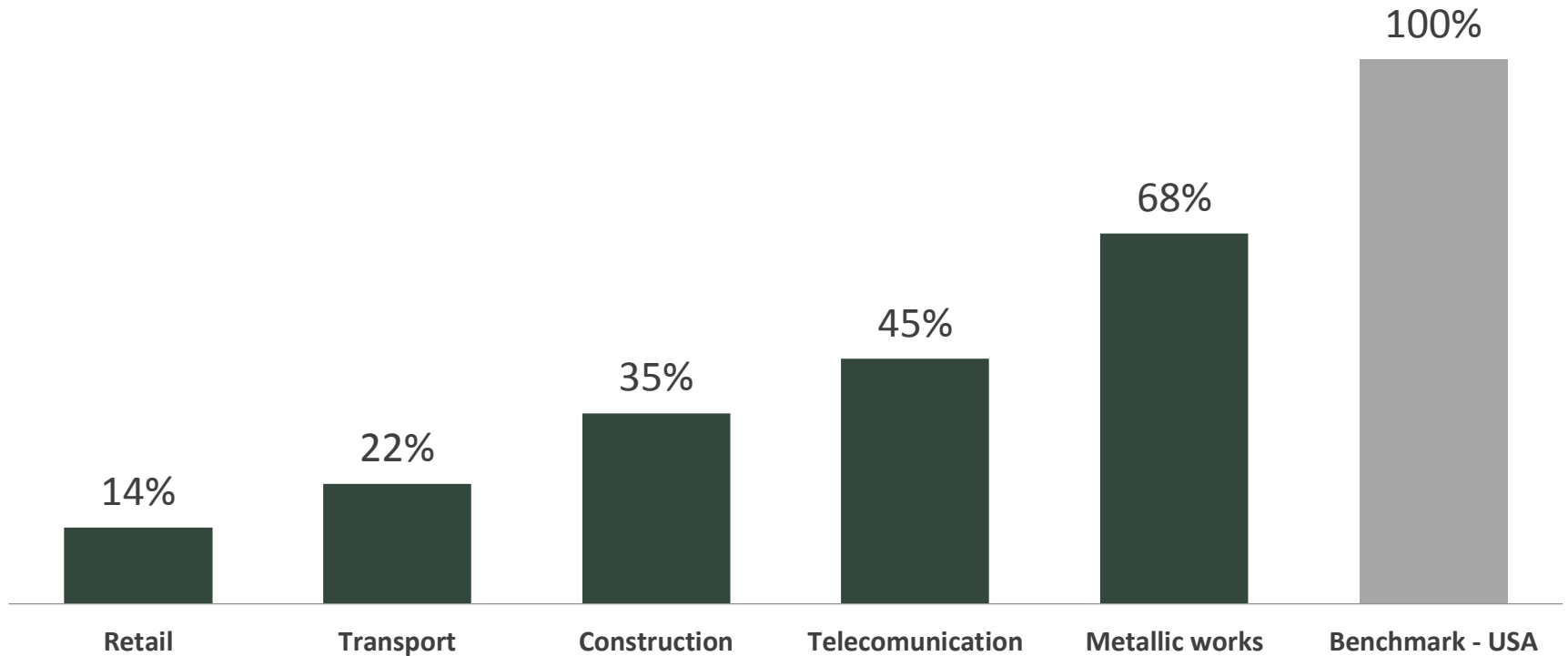


Source: Pesquisa CNT / Coppead 2011: Transporte de Cargas no Brasil - Brasília



Brazilian Transport Efficiency

Segment Productivity (Million TKU per employee)



Source: Pesquisa CNT / Coppead 2011: Transporte de Cargas no Brasil - Brasília



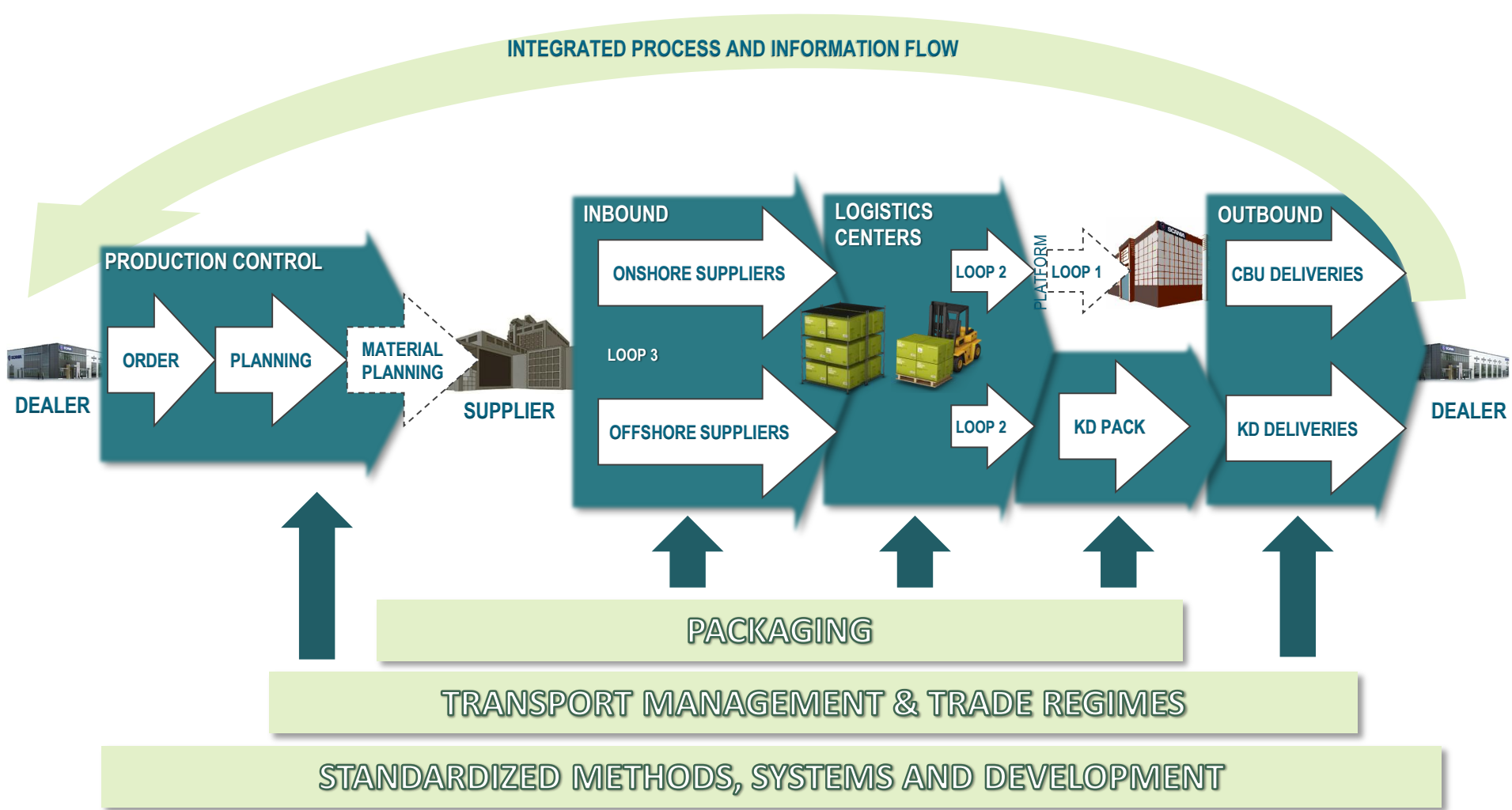
ATENÇÃO

**REDUZA A
VELOCIDADE**

**TRECHO IRREGULAR
NOS PRÓXIMOS
20 km**

BR-364 – Epitaciolândia, AC

Logistics from Order to Delivery

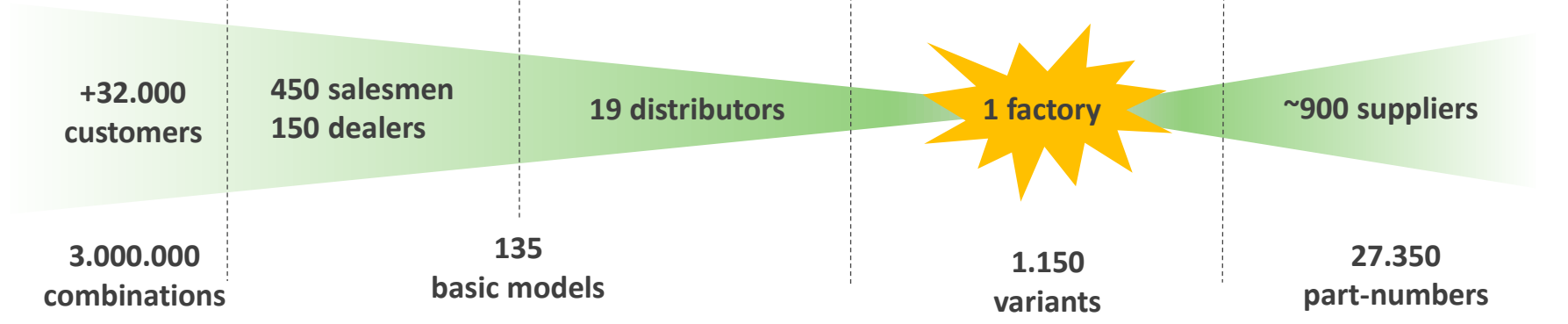


Supply Chain in Latin America

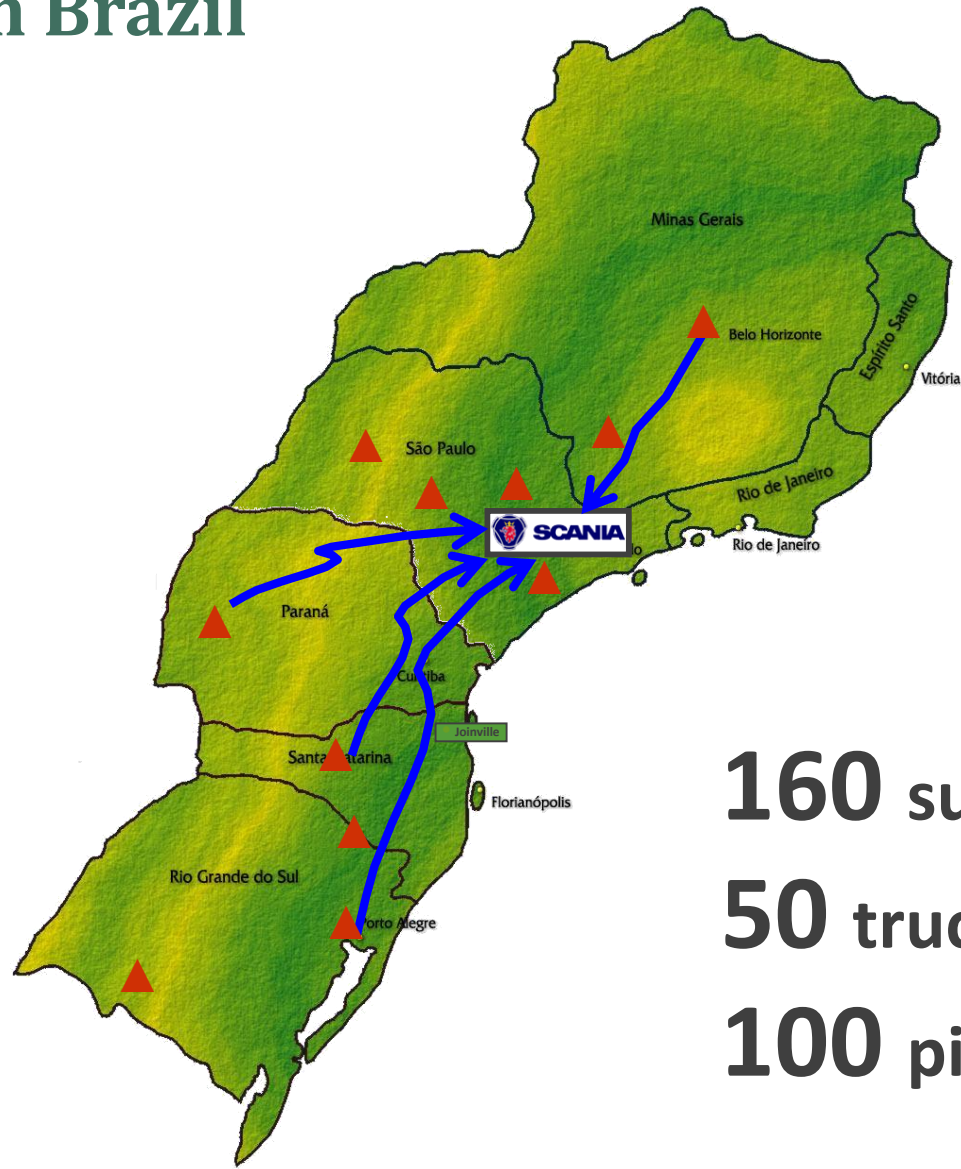
Material & Information flow



Information flow



Milk Run in Brazil



160 suppliers
50 trucks/day
100 pick-ups/day



Onshore Inbound Development

Up to 1998

Supplier deliveries

1.0 – From 1999

Static Milk-Run

2.0 – From 2010

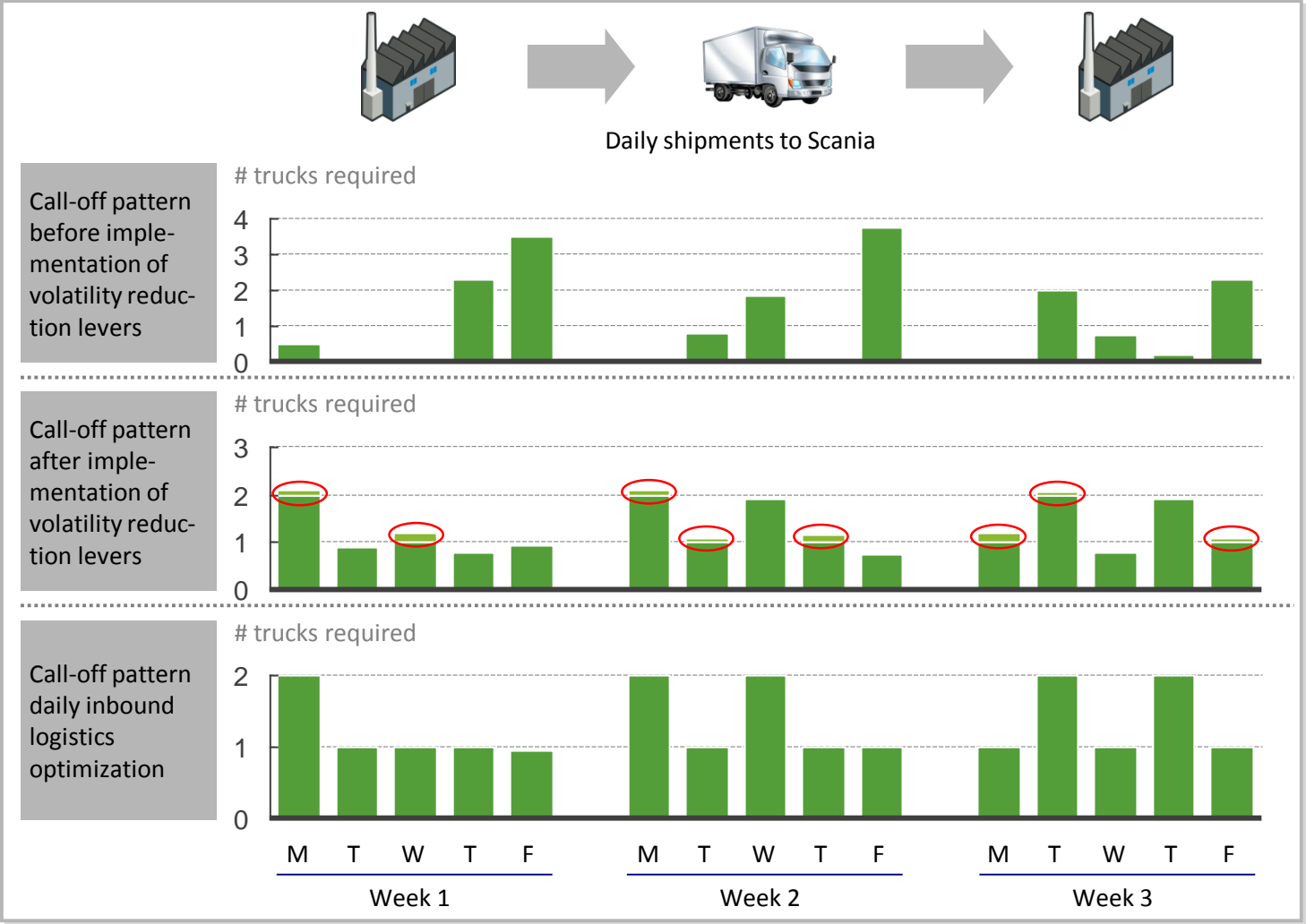
Dinamic Milk-Run

3.0 – From 2014

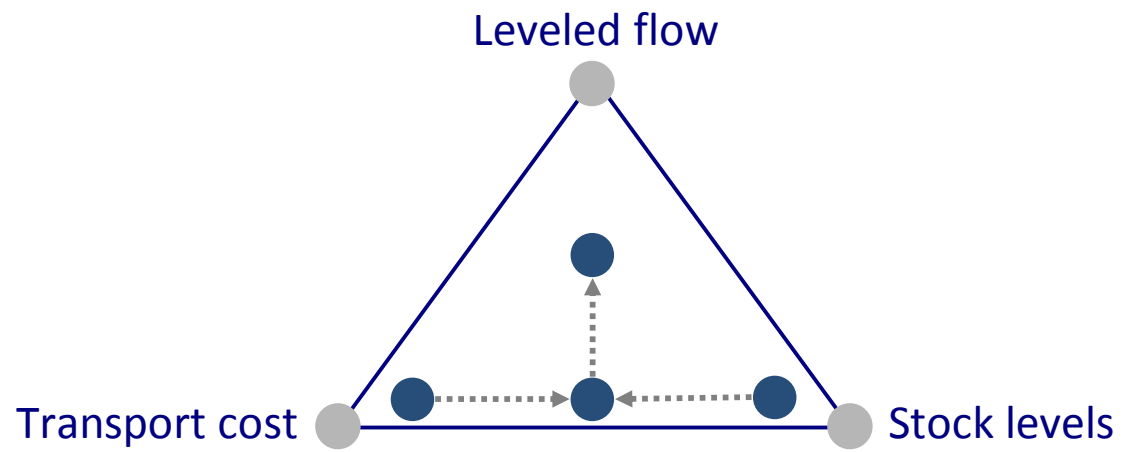
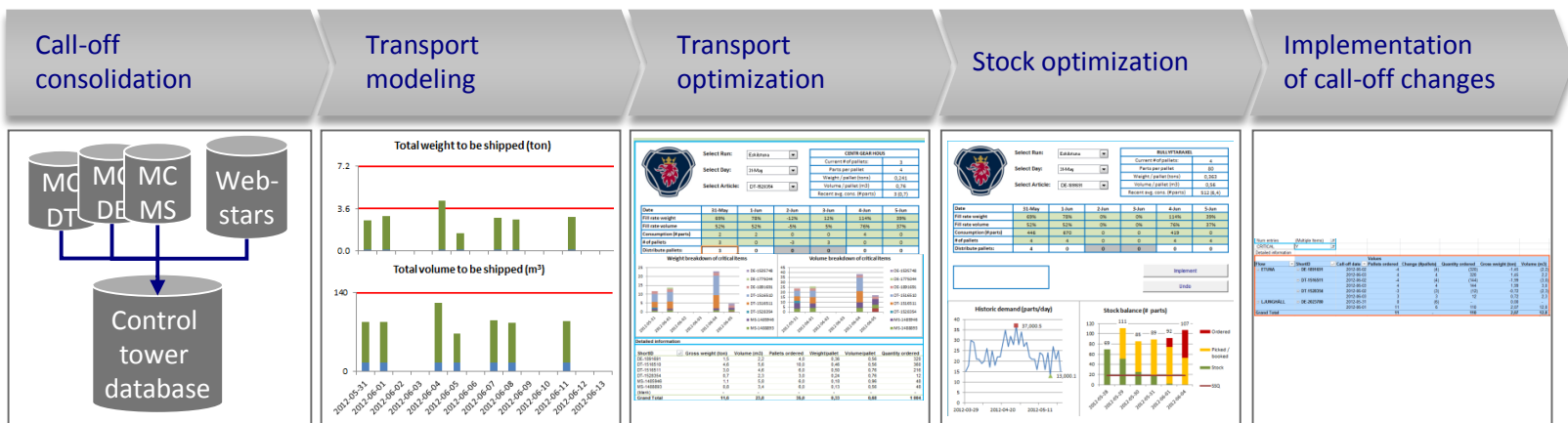
Leveled Milk-Run



Project NILE



NILE- Control Tower



NILE – Initial Results in 12m



**120 trips
less**

((km))

**114.000
km less**

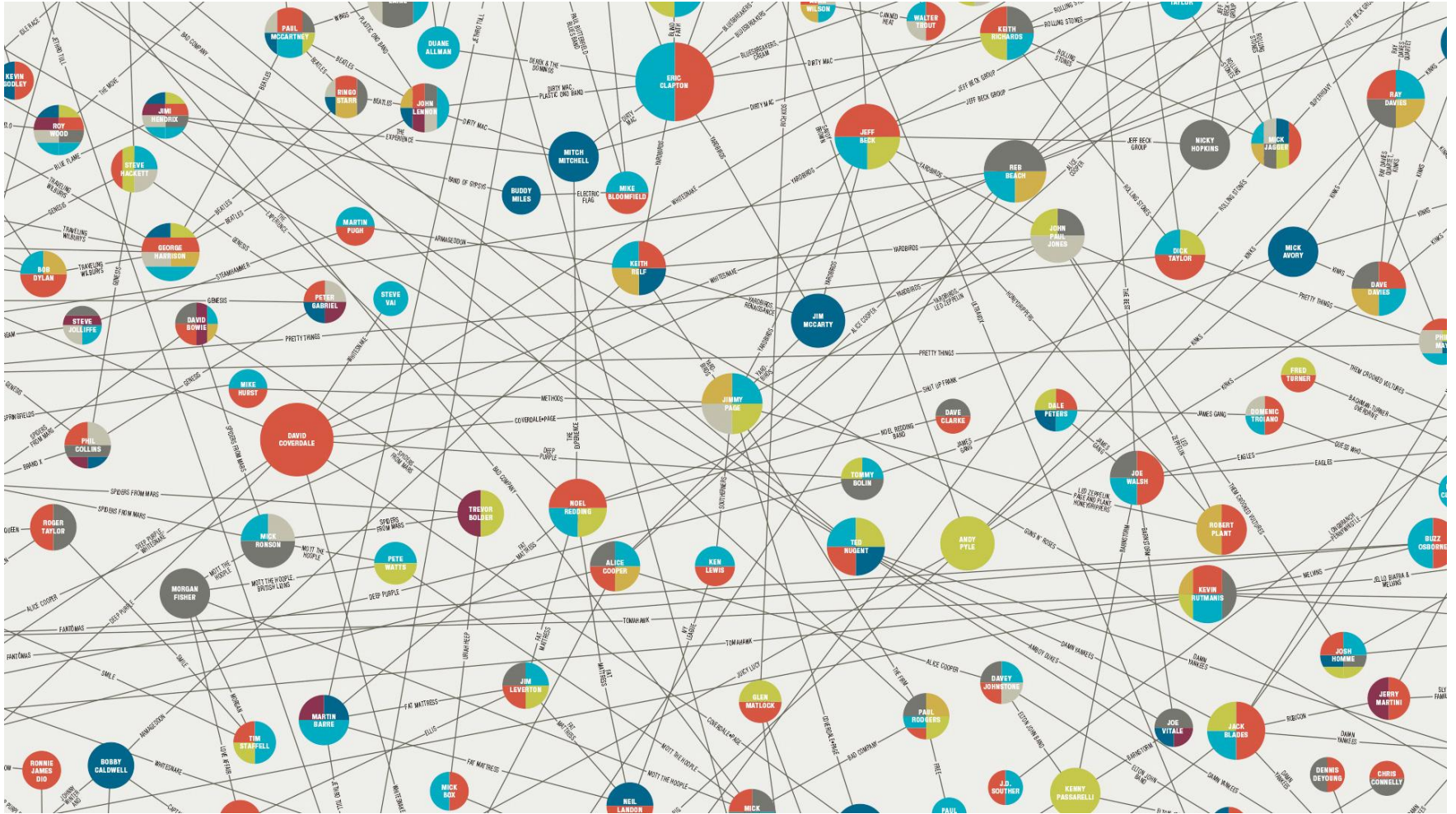


**131 ton CO2
less**



Connected Flows

The future of transport productivity



Connected Flows

The future of transport productivity

Rank	Country	Goods	Services	Financial	People (2010)	Data and communication (2013)
1	Germany	3	5	7	5	2
2	Hong Kong, China	1	4	3	14	(not available)
3	United States	8	9	5	1	7
4	Singapore	2	3	4	18	5
9	Russia	19	30	16	2	21
17	Australia	32	34	14	11	30
18	Malaysia	10	23	34	26	32
20	South Korea	7	14	25	58	34
25	China	5	21	6	93	33
27	Mexico	17	67	22	13	48
30	India	27	13	26	47	64
41	Chile	42	54	20	95	36
43	Brazil	39	40	18	115	38
47	Argentina	55	60	53	59	40
49	South Africa	43	50	49	56	73
56	Indonesia	31	49	39	113	65

1 Index calculations use migrants data for people flows and cross-border Internet traffic for data and communication flows.

SOURCE: Comtrade; IHS Economics & Country Risk; World Trade Organization; Telegeography; World Development Indicators; World Bank; McKinsey Global Institute analysis

Source: McKinsey Global Institute – Connecting Brazil to the world, 2014



Be a protagonist!

