*Αντώνης Μαυρόπουλος, CEO D-Waste, Πρόεδρος ISWA*

# 4η ΒΕ, Κυκλική Οικονομία και ΔΣΑ

5th International Conference on Sustainable Solid Waste Management
***Αθήνα, 21 Ιουνίου 2017***

http://wastelessfuture.com

# 1. Ανθρωπόκαινο

# Από την τάφρο της Μαριάννας στο Έβερεστ

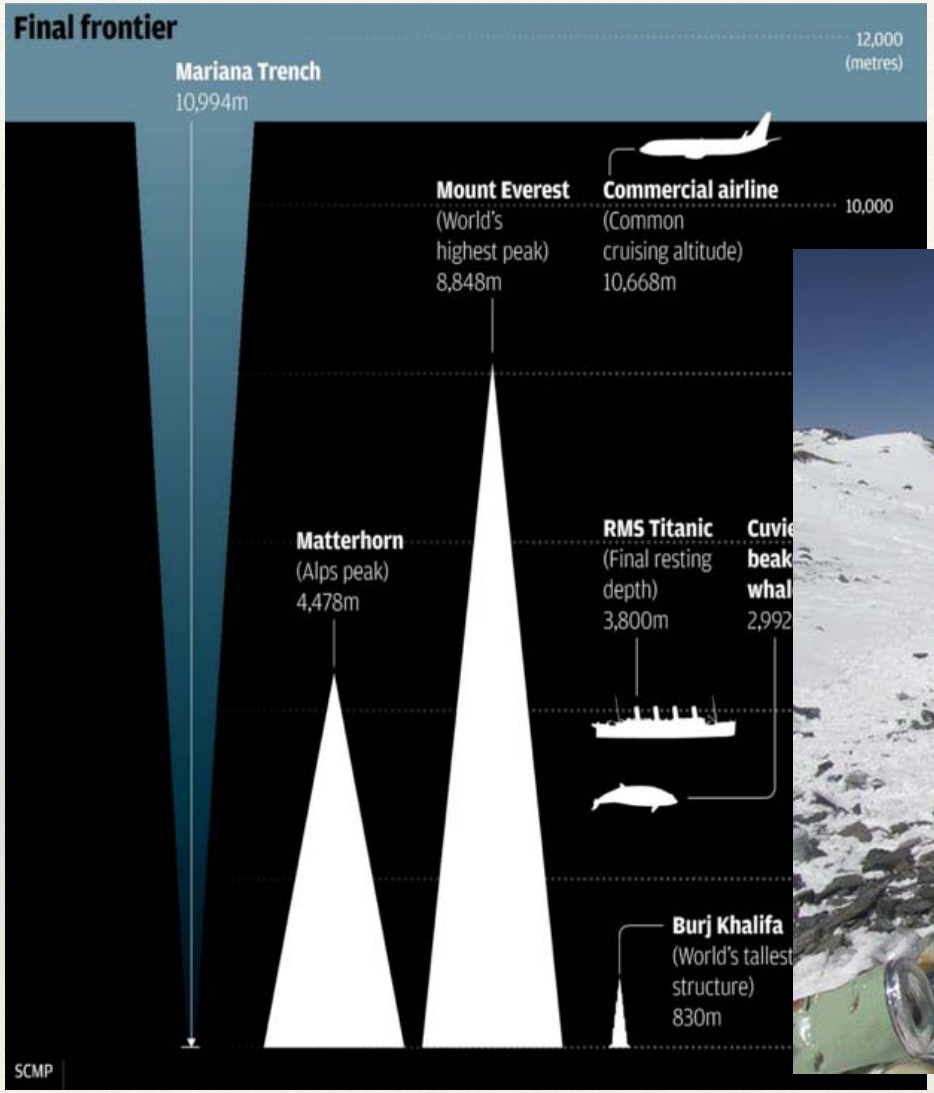

Photo: Namgyal Sherpa/AFP/Getty

Tiny plankton at the bottom of the marine food chain are also consuming microfibres, with devastating impacts on the ec osystem of our seas. The microfibre is the long worm-shaped object at the centre of this image
Read more: http://www.dailymail.co.uk/sciencetech/article-4420992/Shocking-photos-reveal-plankton-consuming-micro plastics.html#ixzz4fGm6Llgu
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# Μικροπλαστικά σε εμπορικά αλάτια

| Country of origin | Brand | Packaging material | Salt type |
|---|---|---|---|
| Australia | A | PE[1]+PET[2] | Sea |
| | B | PE | Sea |
| France | C | PP[3] | Sea |
| | D | PP | Sea |
| | E | PET | Sea |
| | F | Glass | Sea |
| | G | PE+PP | Sea |
| | H | PET | Sea |
| Iran | I | PP+Hostasol green | Lake |
| Japan | J | PE+PET | Sea |
| Malaysia | K | PP | Sea |
| | L | PP | Lake |
| New Zealand | M | PE | Unidentified |
| Portugal | N | PET | Sea |
| | O | PP | Sea |
| | P | Glass | Sea |
| South Africa | Q | PET | Sea |

**Table 1. Detailed information on the salt samples analyzed in this study.** [1]Polyethylene. [2]Polyethylene terephthalate. [3]Polypropylene.

**Source: The presence of microplastics in commercial salts from different countries**
**Ali Karami, Abolfazl Golieskardi1, Cheng Keong Choo, Vincent Larat, Tamara S. Galloway & Babak Salamatinia**
**[www.nature.com/scientific reports](www.nature.com/scientific reports)**

# 143 νεκροί σε 45 ημέρες!

Cities

## City of burning lakes: experts fear Bangalore will be uninhabitable by 2025

The illegal dumping of waste mixed with mass untreated sewage in India's Silicon Valley is creating a water crisis which threatens residents' health - and is causing the city's famous lakes to catch fire

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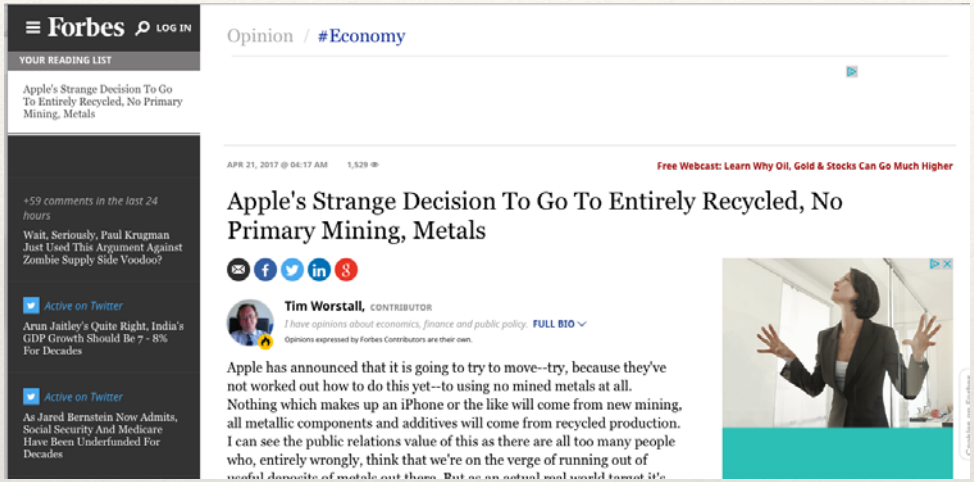
AFRICA

## Death toll in Ethiopia landfill collapse rises to 113

Published March 15, 2017 · Associated Press

- Ανάγκη για δραστική καινοτομία σε δύο επίπεδα
- Σε επίπεδο εταιρικής διαχείρισης και supply chains
- Σε επίπεδο περιφερειακό, εθνικό, τελικά και παγκόσμιο

# 2. Σε επίπεδο εταιρειών…



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Apple's Strange Decision To Go To Entirely Recycled, No Primary Mining, Metals

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Wait, Seriously, Paul Krugman Just Used This Argument Against Zombie Supply Side Voodoo?

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Opinion / #Economy

APR 21, 2017 @ 04:17 AM 1,529

Free Webcast: Learn Why Oil, Gold & Stocks Can Go Much Higher

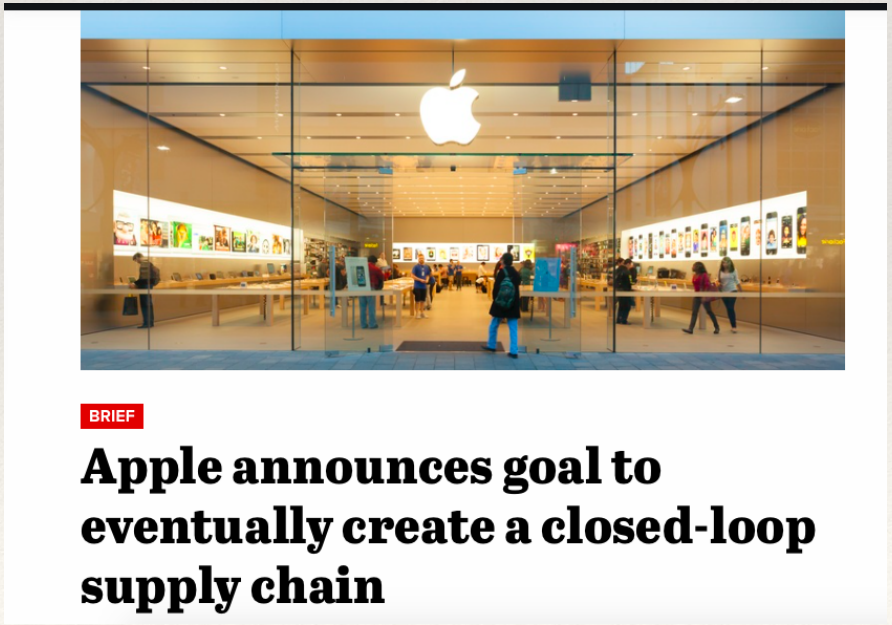
Apple's Strange Decision To Go To Entirely Recycled, No Primary Mining, Metals

Tim Worstall, CONTRIBUTOR

I have opinions about economics, finance and public policy. FULL BIO

Opinions expressed by Forbes Contributors are their own.

Apple has announced that it is going to try to move--try, because they've not worked out how to do this yet--to using no mined metals at all. Nothing which makes up an iPhone or the like will come from new mining, all metallic components and additives will come from recycled production. I can see the public relations value of this as there are all too many people who, entirely wrongly, think that we're on the verge of running out of



BRIEF

**Apple announces goal to eventually create a closed-loop supply chain**

# Τα οικονομικά μεγέθη

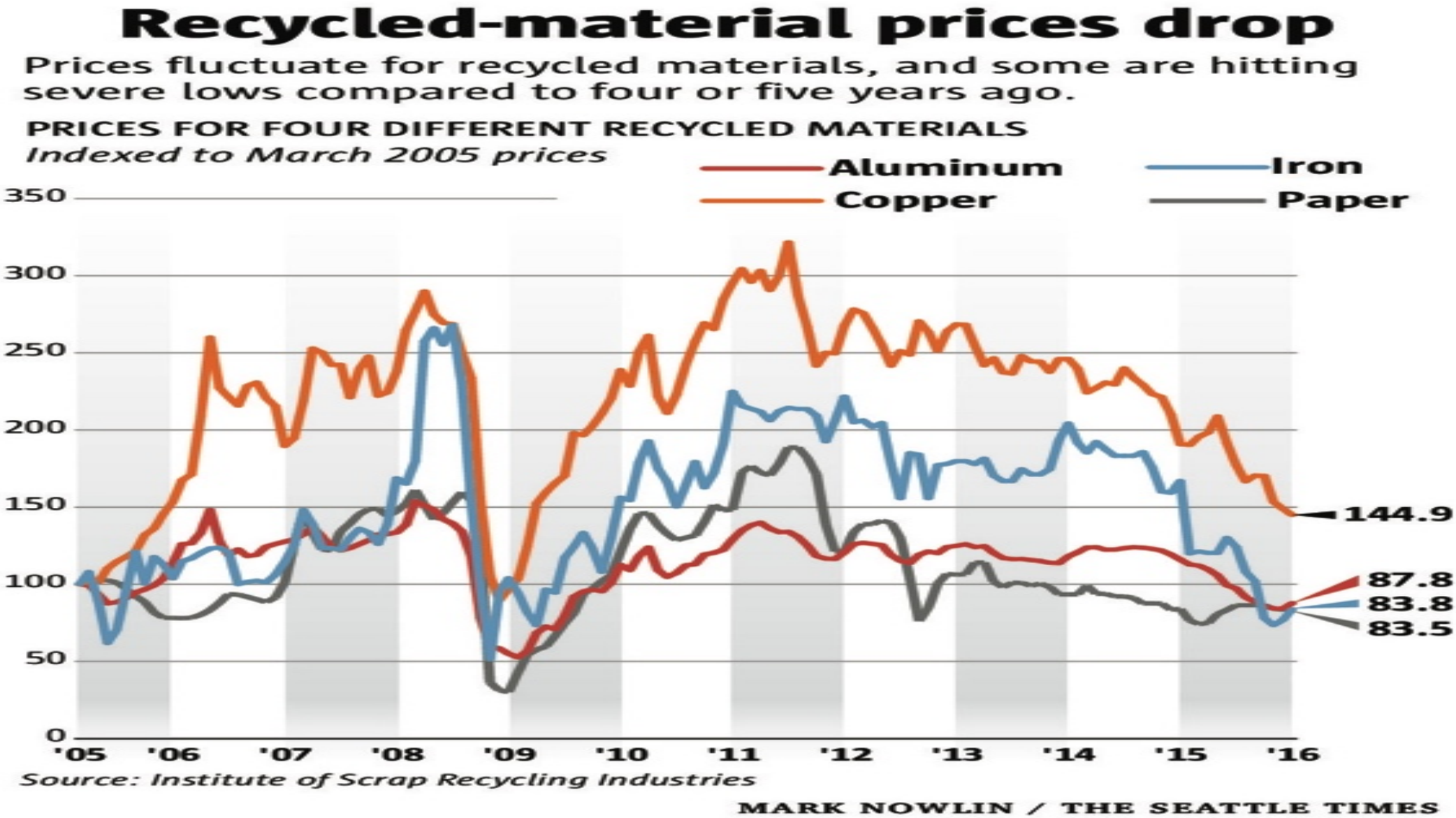
**700,000,000** iPhones πουλήθηκαν από το 2007

**235,000,000** iPhones πουλήθηκαν το 2015

**40,000,000 $ η αξία του χρυσού που ανακτήθηκε το 2015**

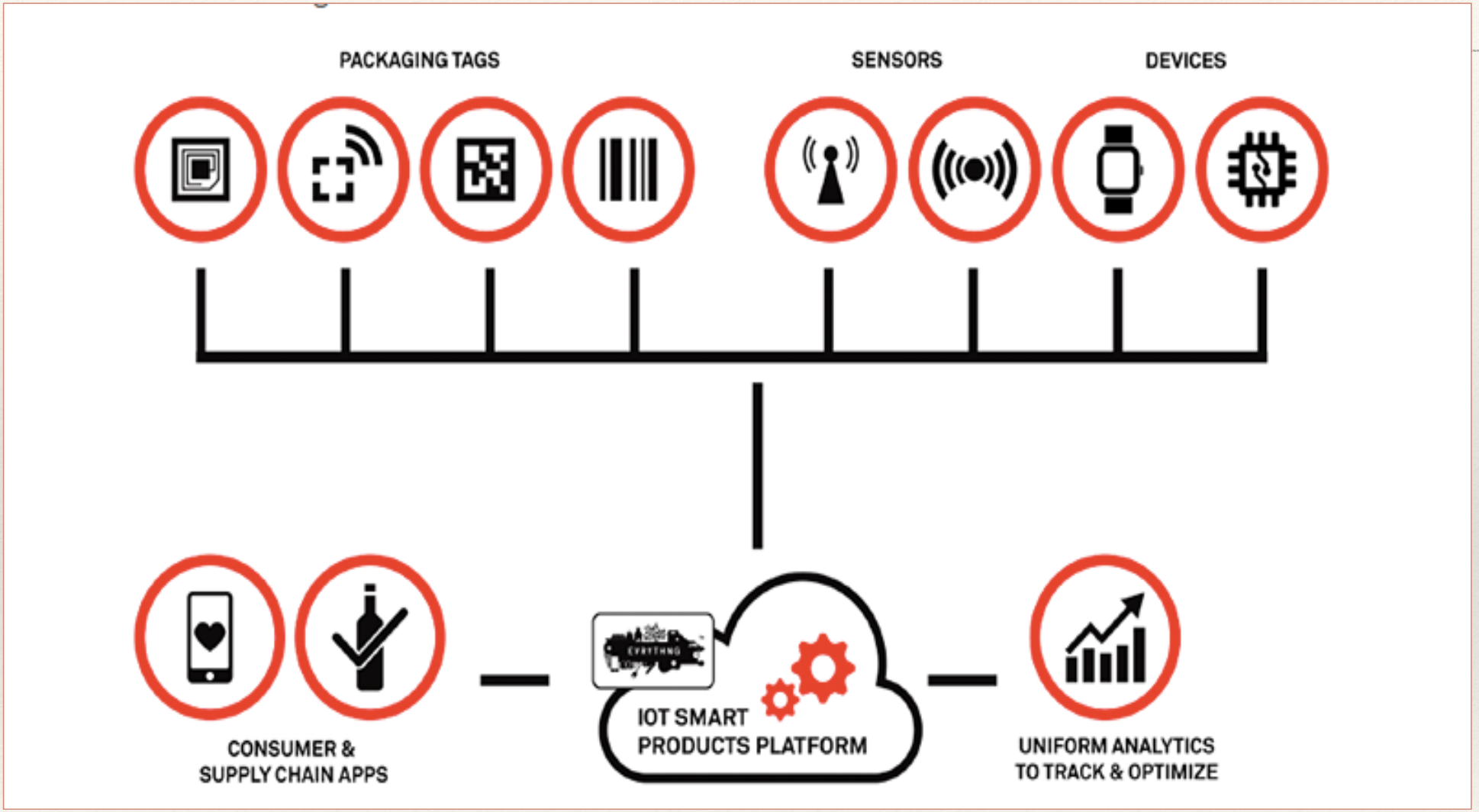
WASTELESS FUTURE
Antonis Mavropoulos

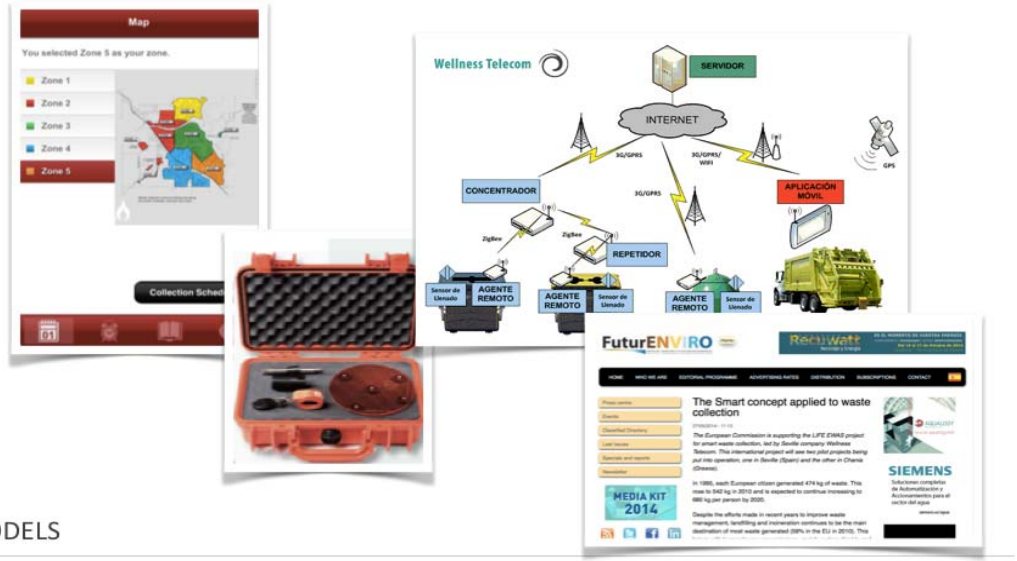
# 3. Σε επίπεδο πολιτικής και υποδομών



# Τα νέα απόβλητα

# The Internet of Packaging



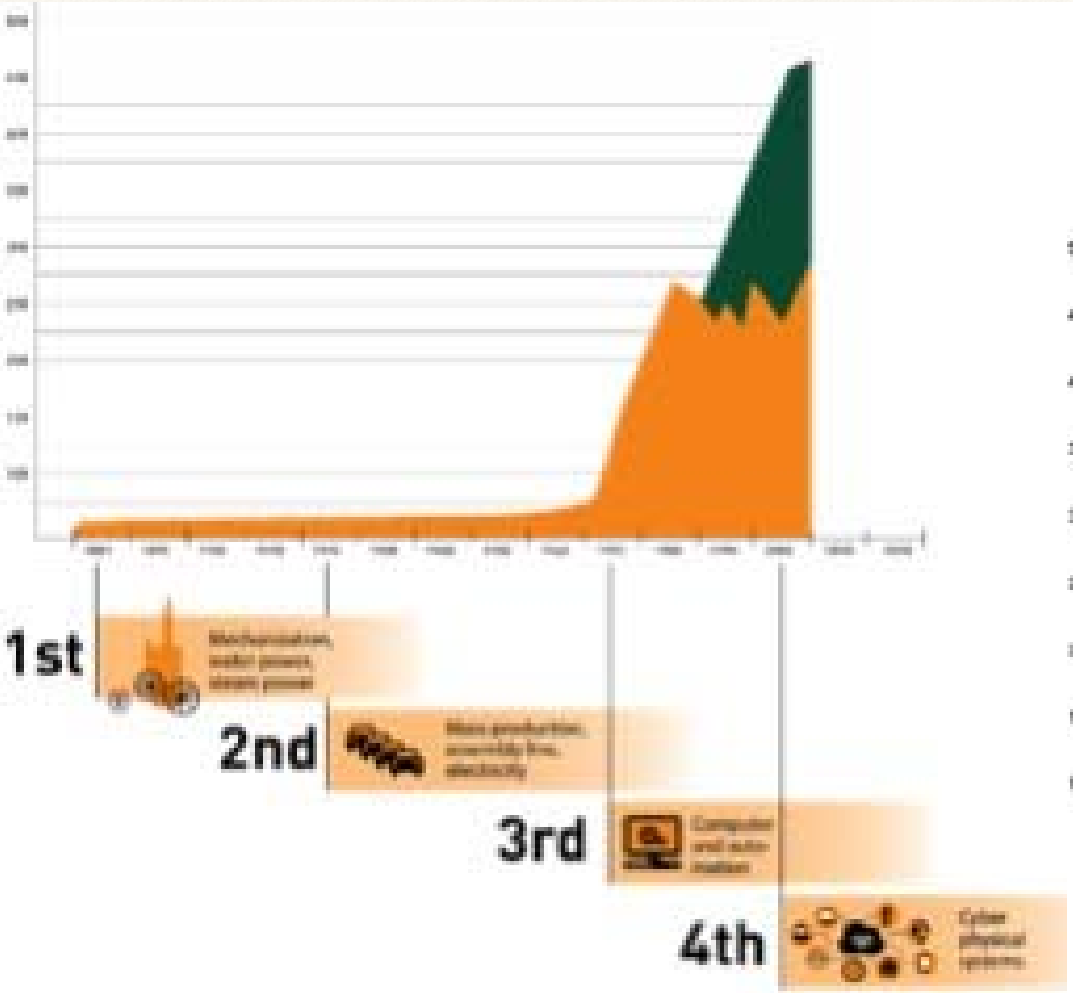


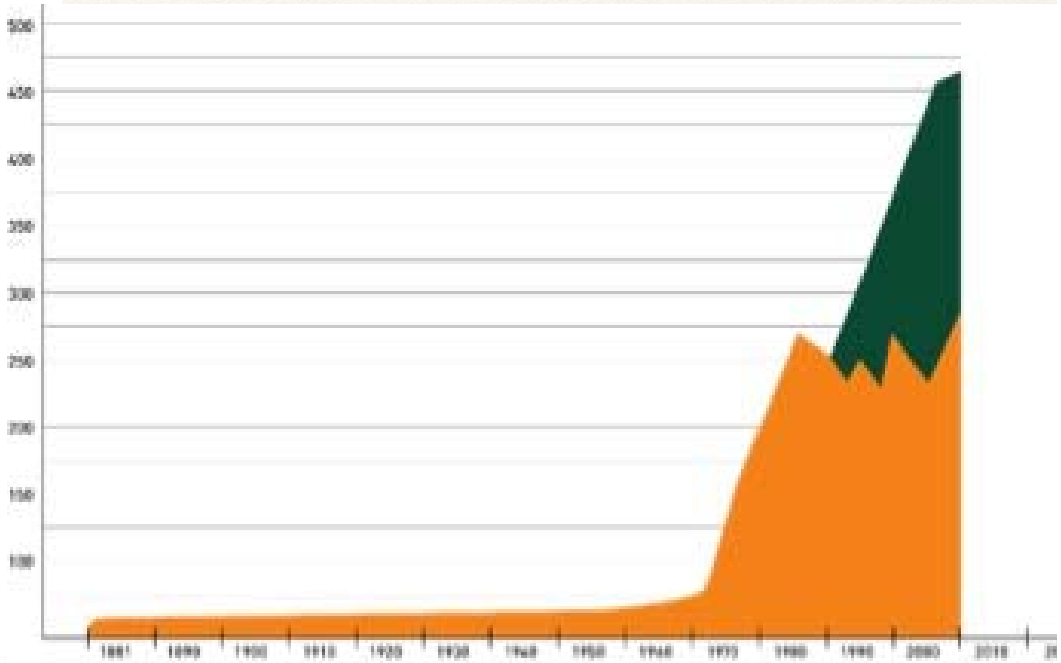

HYBRID MODELS

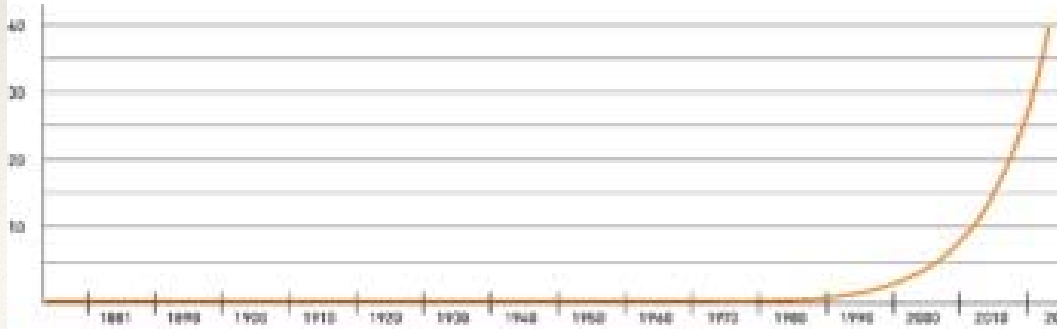
# Smart Collection: eWAS project, Seville

Sensors, mobile apps and optimisation of logistics in a single package

# Big data sets





Source: [http://wastelessfuture.com](http://wastelessfuture.com)

WASTELESS FUTURE
Antonis Mavropoulos

Home Vision Meet Antonis Speaking

# Five questions about Robotic Recycling

Antonis Mavropoulos
January 26, 2017
Circular Economy, recycling, Robots, Sensors, Wasteless
0

We have just started to discuss and try to understand what will be the potential impacts of the rise of robots in our lives and societies. But, the pace of change is too fast and very soon we will have to deal with the real consequences rather than the potential ones. As I use to say in my lectures "Fasten your seatbelts, the fourth industrial revolution is already here and disruption is the rule, not the exception".

# The Future of the Waste Industry & the 4th Industrial Revolution - Take part in ISWA's Global Survey now!

**ISWA is reaching out to the waste management industry with a first of its kind survey on the fourth industrial revolution.**

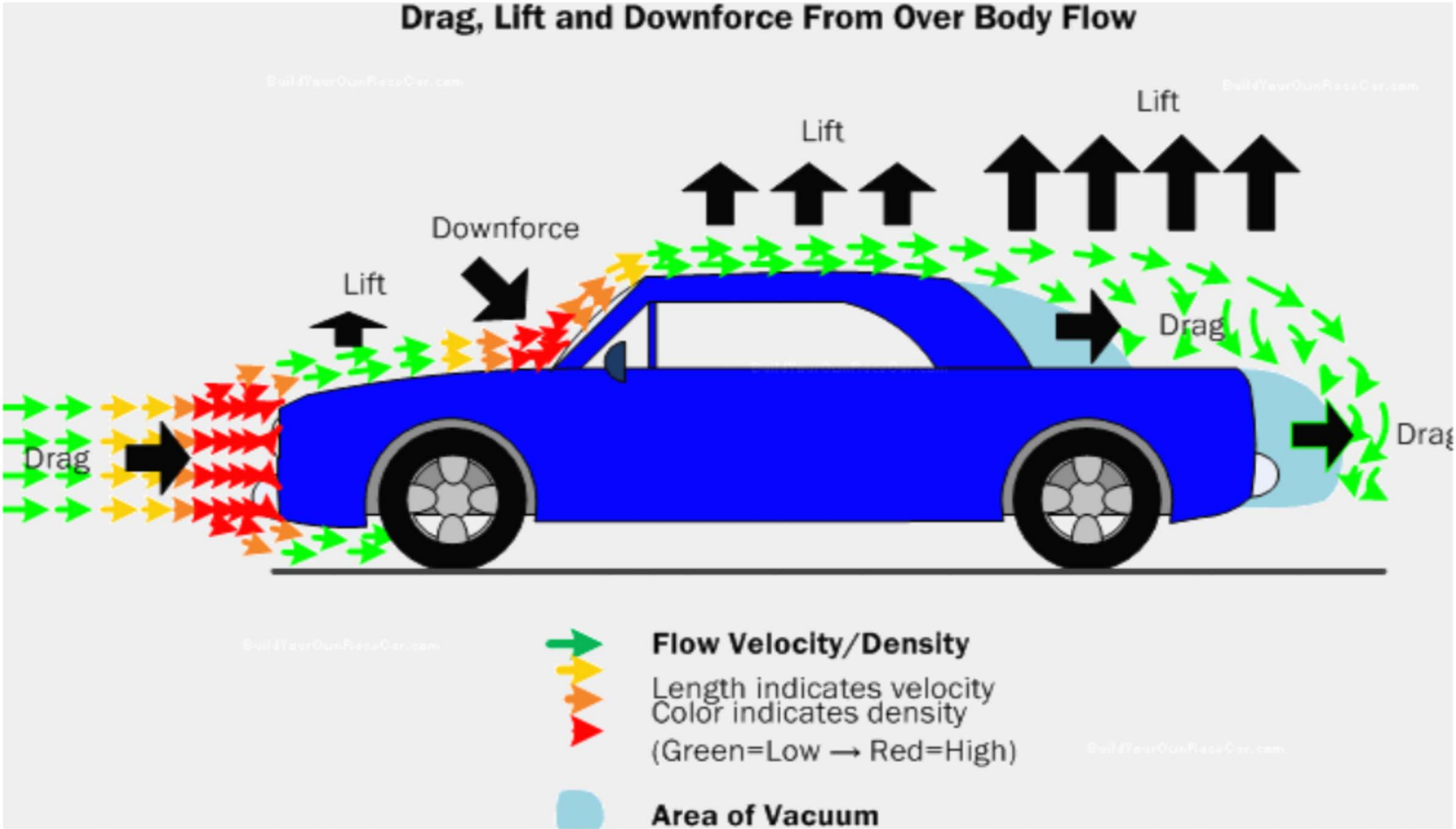
14 Nov 2016 - As announced in the latest blog of Antonis Mavropoulos, ISWA would like your input and opinions on the role of new and emerging technologies in the waste management industry.

We have designed a short survey which should not require any more than ten minutes of your time. The answers you provide us with will be the basis for evaluating and identifying the most important challenges the waste management sector is going to face in the future.

The aim of the survey is to establish opinions and views to understand the impact of the fourth Industrial Revolution on the waste management sector and we will present an analysis of the results to you afterwards, identifying the challenges of our industry in the future.

**Once again, you can find the survey here: https://www.surveymonkey.com/r/4thindustrial**

# Πως να σκεφτούμε;



# Ευχαριστώ

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