

Role of Data for Better Resource Efficiency – CTC experiences



**TADHG COAKLEY
CLEAN TECHNOLOGY CENTRE, CIT**

**ENVIRONMENTAL DATA: PRIORITIES AND
INNOVATION
NESC CONFERENCE
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WWW.CTC-CORK.IE



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PROMOTING SUSTAINABILITY SINCE 1992

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Promoting Sustainability Since 1992



Data should be Meaningful



- **Green Business Programme**
- 150 companies have had Resource Efficiency Assessments carried out
- Average savings per company:
- **€37,000 per annum**

Meaningful data, what people understand, can lead to change



 **GreenBusiness**

Data should be Manageable



- **Stop Food Waste Programme**
- Household food waste: €400 – €800 per annum
- Restaurant food waste: €2 - €5 per kilo – e.g. 200kg of food waste in a week: up to €1000 per week!

Manageable chunks of
Data communicated
A reference point



FoodWaste.ie

Data should be Comparable



- **Green Healthcare Programme**
- Benchmarks between hospitals
- Comparable by factor or identifier - Normalisation (e.g. waste per in-patient bed day)

Comparable and
Normalised data –
a good
motivator



GreenHealthcare

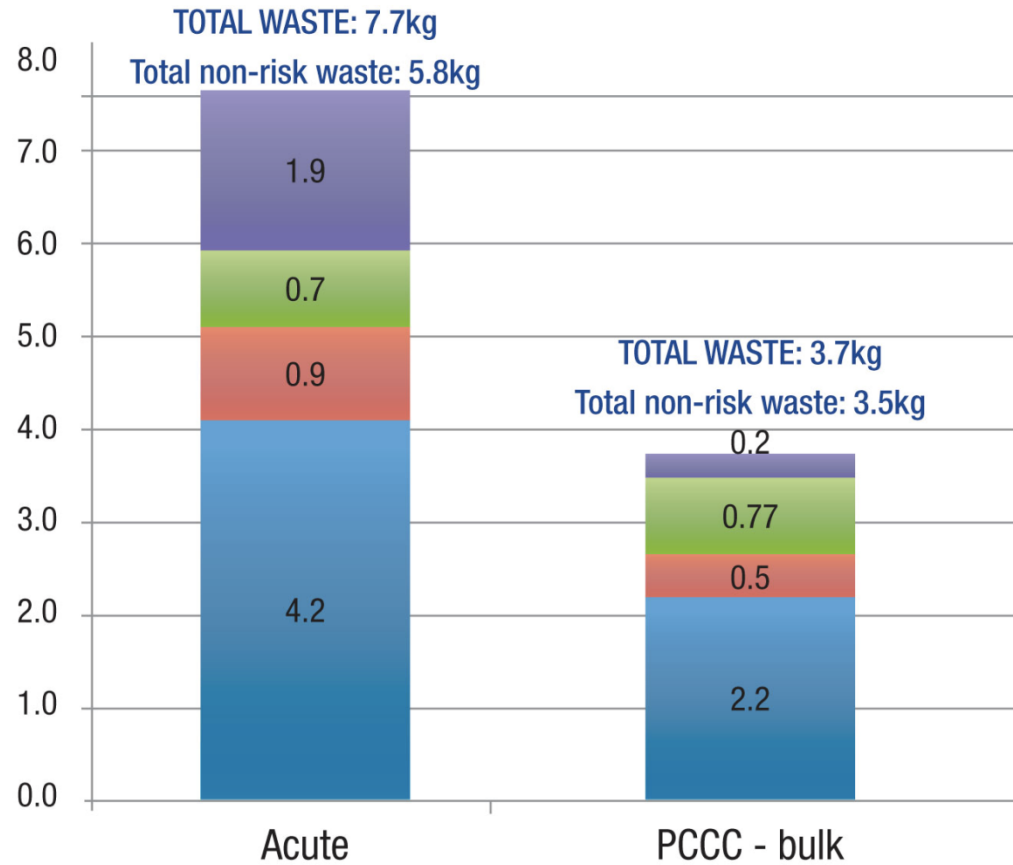


Data should be Comparable



**kg waste
generated per
in-patient bed day**

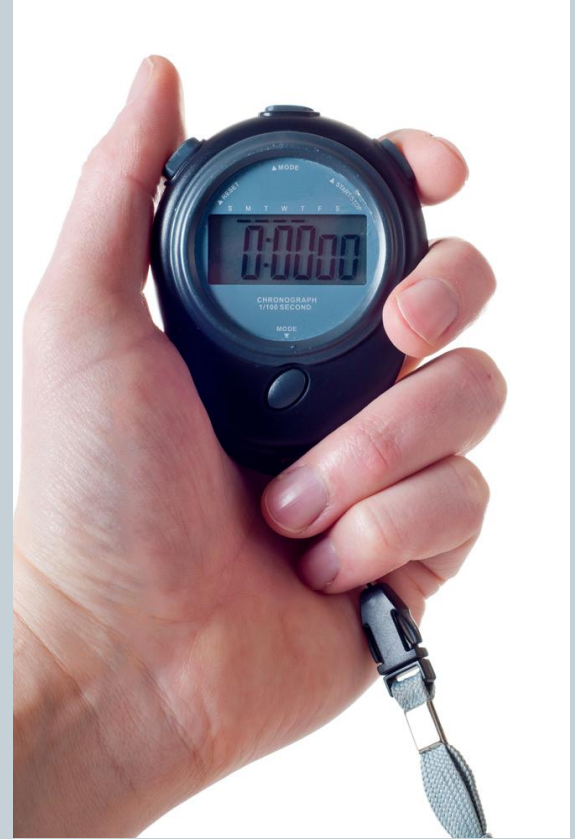
- Healthcare risk waste
- Food waste
- Mixed Recyclables
- General landfill waste



Data should be Analysed



- It takes time
- It's expensive
- It's hard
- Waste Characterisation data
- Commercial water use



Data should be Accompanied



- Household cleaning products a €50 billion industry
- 3% bleaches, 5% soaps, 13% maintenance, 14% dish cleaning, 16% hard surface cleaners, 49% fabric washing.

You mustn't do
this you
Mustn't' do that...



Local Authority Prevention Network

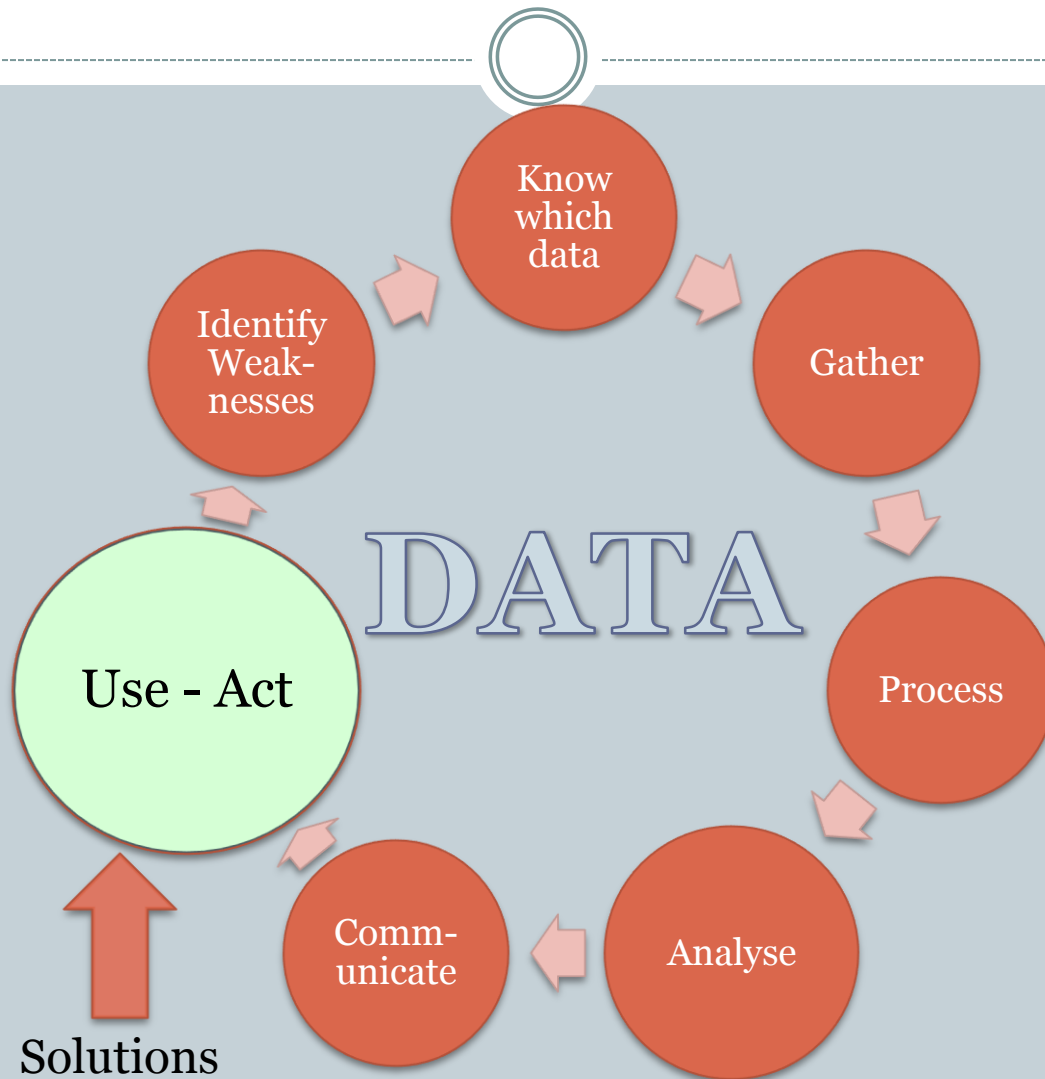
Data should be Accompanied



Viable Alternatives –
Solutions



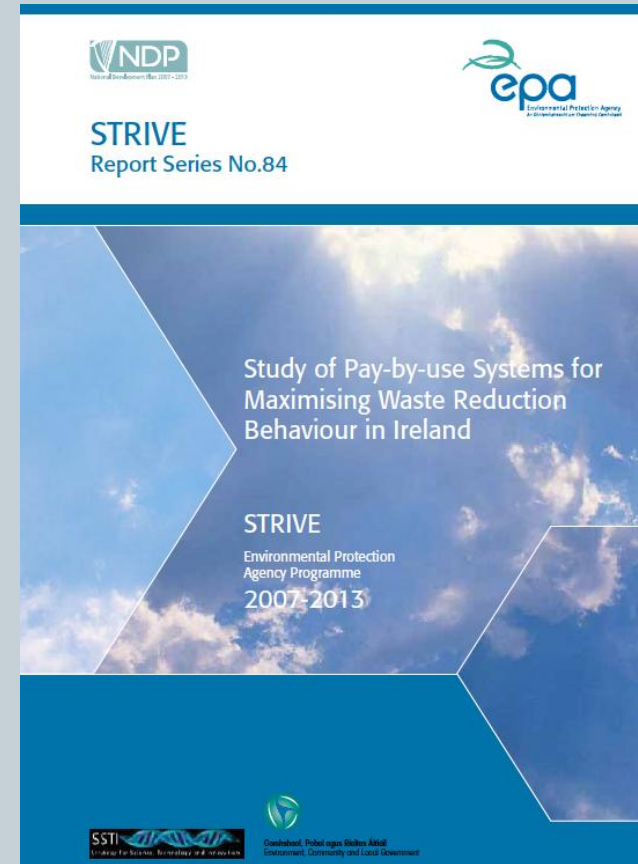
Data Flow Cycle



Data should be Verifiable



- Research Study of Pay by Use Waste Charges
- 62 data sets for 792,851 households
- Over 50% of all households in Ireland
- Result: Pay by Weight prevents waste
- Credibility



Data should be Significant



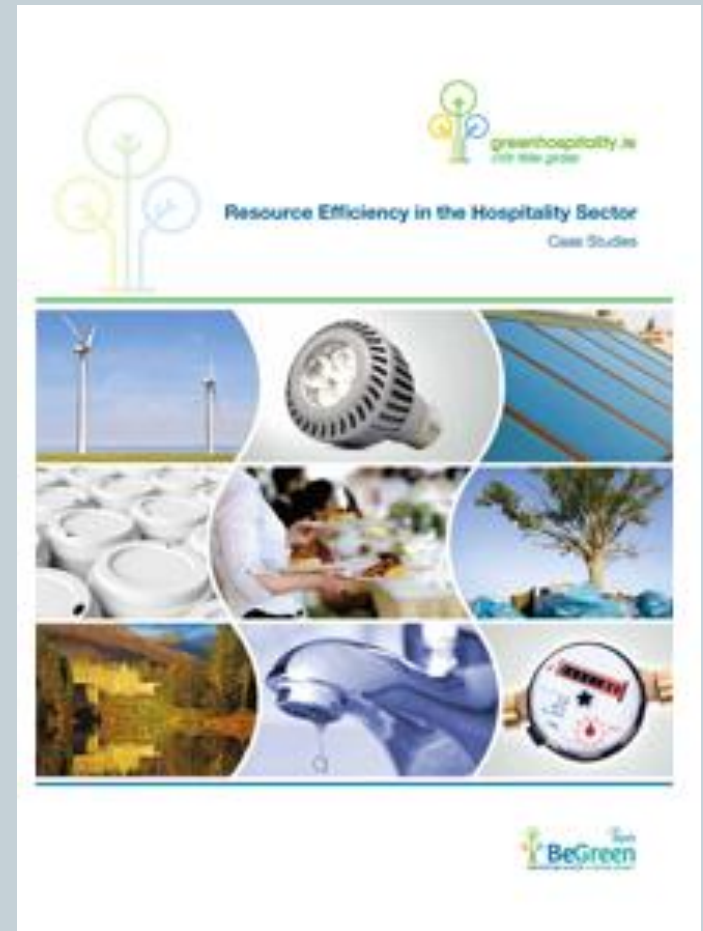
- CTC study of cleaning practices
- Across 6 major companies in a sector
- Annual savings €130,000 per annum
- 1200 additional production capacity hours



Data should be Utilized



- Disposal paper cups – change to reusable cups
- Investment.....€9,000
- Cost Savings....€124,000 / Annum
- Payback.....Less than 1 month



Data should be Available



- New Research Project
- March 2015 – February 2016
- Resource Efficiency in Priority Irish Business Sectors (2014-RE-DS-1)

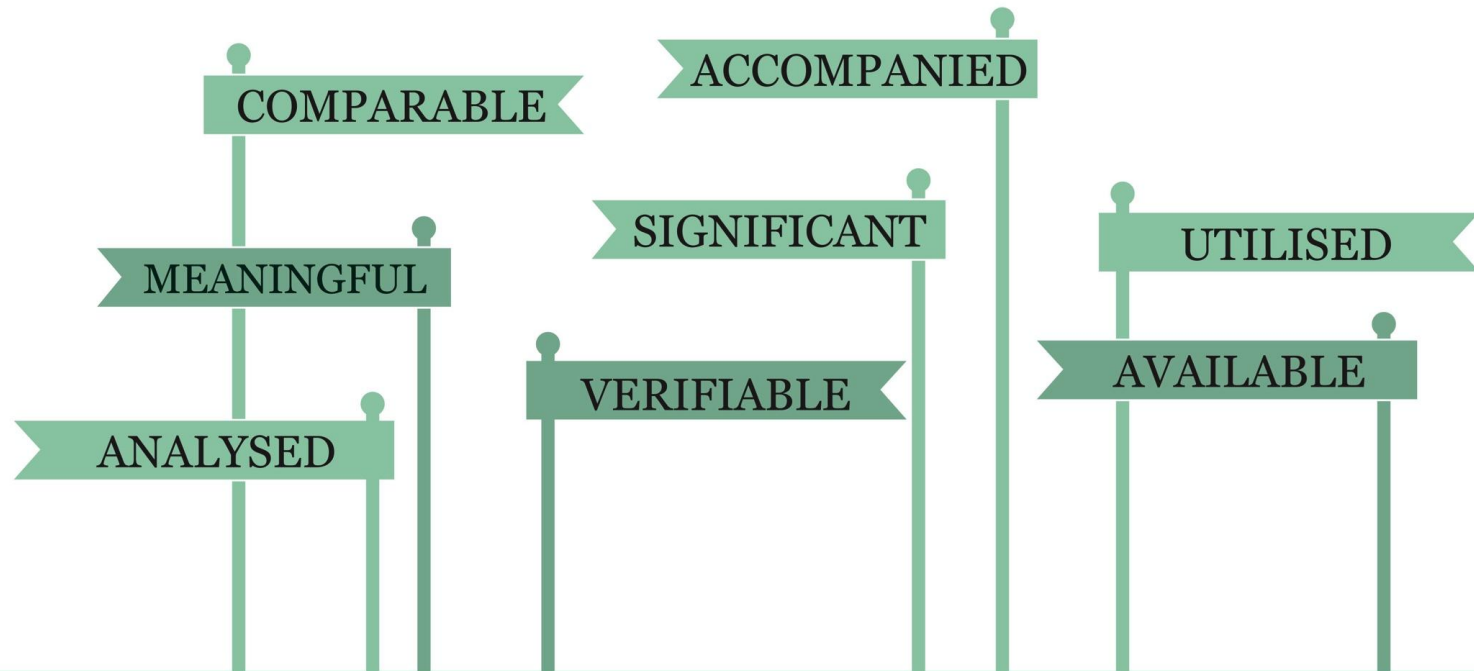
- We're good on waste



Comhshaol, Pobal agus Rialtas Áitiúil
Environment, Community and Local Government



Summary and Conclusions



DATA

Thank You



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