

THE CIRCULAR ECONOMY

What - Why - How - Where

When

UNDER CONSTRUCTION



Lloyds Say “By Your Side”
SO: WHY ARE THE BANKS CLOSEING THEN ?



Congestion Is Getting Worse
Electric SUVs Won't Solve Congestion

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3.1 Conclusion / The Action Plan

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1.1 INTRODUCTION

WHY

Back in 1995 the “Open University and BBC Learning Zone” produced a TV program on **calculating volume**.

A Maths Question Was Asked;-

Based on the volume of the ice mass at the North Pole and South Pole...

- **What would be the rise in sea level if the ice melted...**

The Answer:-

- The ice floats on the **Arctic Ocean**. If it melted - **only the weather would be affected...**
- If the ice covering **Antarctica** melted, the sea level would rise about **60 meters (200 feet)...**

THE CIRCULAR ECONOMY What Why How Where When.

A Report: This is an opportunity to plan and action a circular economy. Business Investment, Manufacturing Improvement, NHS, the Social Services, LIFE.

We all know now that Climate Change is an issue, this report illustrates a few things to think about in order to reduce Non-Value Waste and improve life...

ABOUT THE AUTHOR

The Managing Director of an **Industrial Engineering Consultancy**

- In the mid 1980s founded a company in **LEAN Manufacturing and Process Improvement**
- Now been working in manufacturing for over 30 years and in 60 cross-sector companies

A Designer of Factories, Process Improvement and Company Turnaround.

- Working predominantly in the UK, also Czech Republic, France, Netherlands, Ireland, Canada
- **During the last 15 years saving and generating for companies around £12 Million...**

During the period August 2018 – January 2019 worked in the **Netherland's, Arnhem**.

- Project **Company Turnaround** - Process Improvements and **Cost Savings** circa **£2,000,000**

My Job Is To Help People In Business - Improve Their Business... A Trouble-Shooter...

WHY WE NEED TO “CHANGE”

- Google - worldometer - “real time world statistics”.
- Google - the impact of sea level rise UK (images)
- Google - car free cities UK (images).

CLIMATE CHANGE

THE OPPORTUNITY

PRESENT PROBLEM

We can see air pollution hanging over our towns, we can even smell the air pollution.

Causes Of Pollution

Industry - Manufacturing

Log Burners - Power Generation

Office Buildings - Household Boilers

Vehicles - Planes - Ships etc...

- But people “only talk about the problems of vehicle pollution”...
 - PEOPLE DON'T TALK ABOUT A SOLUTION or HOW TO IMPLEMENT A SOLUTION..
-

SO: WHAT DO WE DO ABOUT IT, NOW...

- Option 1 – Do nothing, and hope it will go away
- Option 2 – Talk about it, and hope it will go away
- Option 3 – Talk about it, and hope someone else will do something about it
- Option 4 – Talk about it, Talk to other people, AND DO SOMETHING ABOUT IT...

SO: OPTION 4...

- What are we going to do about it - And “LETS THINK OUTSIDE THE BOX”

What Can We Do? NOW

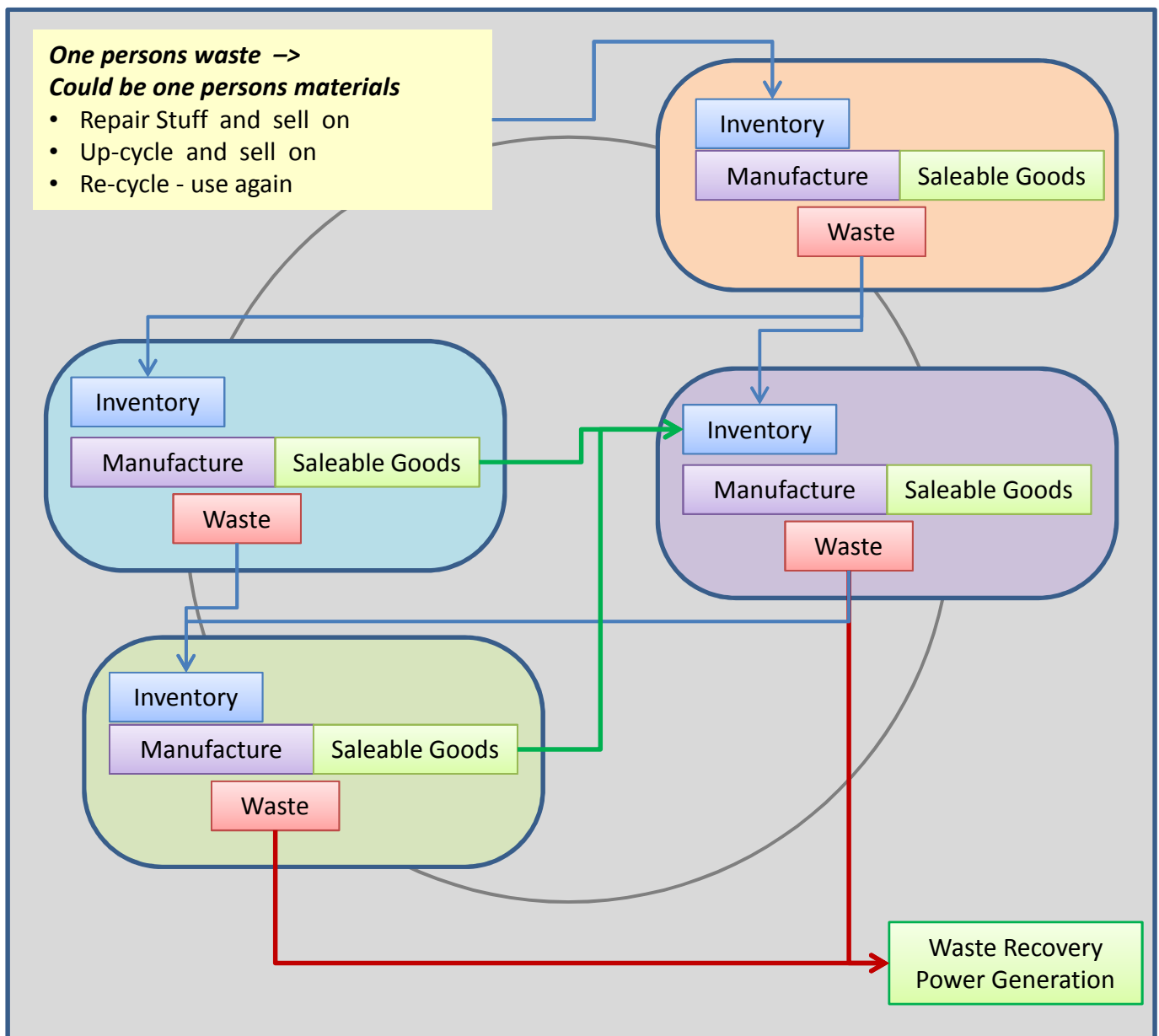
2.1 THE CIRCULAR ENONOMY - Part 1

PRESENT PROBLEM

1. We buy stuff in the UK –
2. Cars - built in France or Germany
3. Parts are made in China, transported by ship, half way across the world... WHY ?

MANUFACTURING and The Waste Stream

1. If we turned “one persons waste” into “another persons materials / inventory”
2. If we could use “Waste Recovery” – Use Waste to Generate Electricity...
3. If we didn't produce waste – we wouldn't need to re-cycle it...



2.2 THE CIRCULAR ENONOMY - Part 2

PRESENT PROBLEM

We are Born
We Die

LIFE and The Services We Need

1. Presently NHS / Social Services are fragmented and not working
2. If we JOINED SERVICES TOGETHER Life would be an "Organised Service"



2.3 BUSINESS INVESTMENT and the Circular Economy

PRESENT PROBLEM

1. We expect people in all countries to live like people do in the West.

- But do people in America care about people in Asia or anywhere else outside their own town.
 - The answer I think is “NO”.

2. People from Mexico, Brazil, Bolivia and other places want to get into America. WHY ?

- They want jobs
- They want a better way of living
- They want a better future for their kids

THE RICH PEOPLE

TESLA - AMAZON – FACEBOOK – MICROSOFT

These 4 companies have **Billions of \$\$\$\$**, *but still they want more...*

***BUT MONEY IS OF “NO USE” WHEN
LONDON - PARIS or NEW YORK IS UNDER WATER***

THE OPPORTUNITY - INVESTMENT

If America “Invested \$\$\$ into Mexico, Brazil, Bolivia”...

1. They would create jobs, wealth, security
2. People of these countries will then buy the products
3. Then the Mexicans would not want to migrate to America...

=====

***SO: INVEST IN THE POORER COUNTRIES...
THE PEOPLE WOULD NOT WANT TO OR NEED TO
MIGRATE TO ANOTHER COUNTRY...***

Thus Creating a Circular Economy In Every Country Around The World

2.4 **JOBS and the Circular Economy**

PRESENT PROBLEM

1. When we look for a job or career – we go “Where The Money Is”. Not in walking distance...
 - a) People who live near Manchester may work in Liverpool
 - b) People who live near Liverpool may work in Manchester
- Because we are now working 50 miles from home - the roads are congested and polluted
 - Because we are earning more money – we are buying bigger BMW cars and SUVs
 - Because we are buying bigger cars – we are congesting the roads...
 - Because we are congesting the roads – we can't get to work and earn money
 - Because we can't get to work – we have to sell the car and walk
 - Because we now work locally – the climate is cleaner...
 - Because we don't need a car – we have more money...

THE OPPORTUNITY

Buy Local

Work Local

Start a Business Local...

Reduce the effects of Climate Change...



2.5 BANKS and the Circular Economy

PRESENT PROBLEM

1. Because many people are now buying off the internet -
 - The Local shops are closing down and killing small towns.
2. Because many people are now internet banking -
 - The banks are closing down
 - Small businesses are closing down
 - The elderly, you and me don't have a bank to go to, for advice.
3. Because you don't use cash -
 - The banks have total control of your account and money
 - The whole banking system is now open to hackers...
 - The "Cloud" and "GPS" can now be destroyed.....
4. Because we don't buy British built cars -
 - Jobs are being lost in the UK
5. Because local shops and pubs are closing -
 - Our children can't get jobs
6. Because everyone uses card and internet services -
 - What happens when the internet system goes down.....

Lloyds Bank By Your Side ???
Now closing branches

THE OPPORTUNITY

Use Cash
Use The Banks
Use The Local Shops
Buy Locally Produced Goods

- ✓ **SUPPORT SMALL BUSINESSES**
- ✓ **USE CASH**



2.6 MANUFACTURING - WASTE

PRESENT PROBLEM

1. We buy stuff in the UK –
 1. Cars - built in France or Germany
 2. The parts are made in China... WHY ?
2. Car manufacturers build cars in the North West.
 - a. One car is produced every circa "60 seconds" 24/7
 - b. Many parts are manufactured in The Midlands or Wales.
 - c. Lorries are driving up and down the M6 circa 37 times a day.
 - d. Lorries are causing pollution – congestion - accidents...
3. In the car industry "carpet is moulded to plastic"..
 - a. Because of mixed materials rejects will probably go to landfill
 - b. Energy resources "Electricity" is wasted in re-making these parts
4. In Manufacturing product is rejected and scrapped if it is not 100% quality perfect.
 - a. Parts are rejected - faults that will not be seen, are rejected... WHY ?
 - b. Crisp packets are rejected - because the RED is not 100% red... WHY ?

A Different Colour

Rejected

- When Liquid Is in the bottle you wouldn't see the difference...



Carpet Moulded to Plastic

Rejected

- If no-one sees it ...
Then why reject it...



We Need To Cut Land-fill



THE OPPORTUNITY

ADOPT A CIRCULAR ECONOMY

1. DESIGN OUT REJECTS
2. IMPROVE PRODUCT DESIGN
3. SIMPLIFY PRODUCT DESIGN
4. PROTECT THE LITTLE CRITTERS



THE ACTION PLAN
and
THE FIGHT BACK

*WORK LOCAL
BUY LOCAL
USE CASH*

*REDUCE CLIMATE CHANGE ISSUES
SAVE THE PLANET*

LIVE HAPPY

3.1 CONCLUSION – ACTION PLAN

IDEAS and SOLUTIONS

As an Engineer and Business Improvement Consultant - I see the problems - I also see solutions... All we need is to "Think Outside The Box"... To Attack the Problem...

- The weather does not respect... Nationality – faith – gender – money - rules - EU law...
- When the Earth is under water... Are we going to say ***"EU Law says we can't do that"***
- What are we going to tell our children... Are we going to say ***"We can't afford it"***

1. LETS FIND A NEW WAY OF DOING THINGS

✓ We have the technology... Let's Start "The Fight Back"...

Are we the "Last Generation To Do Nothing"

Or are we the generation to do something...

To create clean growth and a clean Earth for our children's children...

Governments just talk – DOING SOMETHING WILL BE REMEMBERED...

	CONTINUOUS IMPROVEMENT - ACTION LIST	CHAMPION
1	Set up a "Climate Change Rescue Team" (Engineers & Developers)	
2	Set up a "Climate Change Rescue Fund" (Investors)	
3	LOOK at the "ROOT CAUSE" - DEAL WITH THE ROOT CAUSE	
4	CREATE A CIRCULAR ECONOMY - In Manufacturing & Business	
5	CREATE A CIRCULAR SERVICE - In The NHS / Social Service	
6	CREATE A WORLD WIDE INVESTMENT PLAN	
7	GET A JOB LOCALLY – Reduce Congestion and Pollution	
8	SHOP LOCALLY – Reduce the need to ship stuff all around the world	
9	DESIGN PRODUCTS – SIMPLE – SATANDARDISE – REDUCE VARIATION	
10	DESIGN OUT WASTE – RE-USE – RE-CYCLE - UP-CYCLE - REPAIR	
11	JOIN TOGETHER SERVICES TO REDUCE COSTS	
12	THINK OUTSIDE THE BOX – THESE ARE THE 2000s	