EU Green Public Procurement (GPP) Support Tools

European Commission
Environment Directorate-General
Robert Kaukewitsch
GPP Helpdesk Webinar on Furniture
29 November 2017

Communication (2008)

Public Procurement for a Better Environment

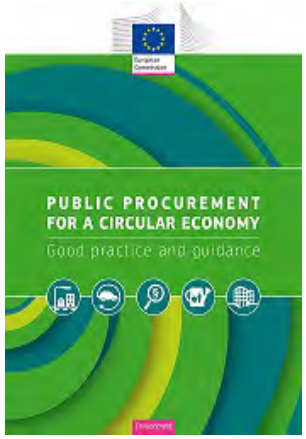
Political target: 50% of tendering procedures to be green

Common EU GPP criteria for priority products and services

Legal/operational Guidance

GPP National Action Plans

GPP support tools



GPP website of the European Commission:

- **Full sets of EU GPP criteria and background reports in 20+ languages**
- **Buying Green Handbook**
- **Circular Procurement brochure NEW!**
- **More than 100 GPP Examples**
- **News and upcoming events**

HELP DESK:

In EN, FR, DE gpp-helpdesk@iclei.org

Newsletter (please sign up!)

EU Green Public Procurement Policy

20+ EU GPP Criteria

Copying and graphic paper *

Computer and Monitors*

Transport

Electricity

Textiles*

Cleaning products and services*

Office Buildings

Furniture*

Food & Catering services

Gardening products and services

*= also EU Ecolabel criteria available

EU Green Public Procurement Policy

20+ EU GPP Criteria

Wall panels

Water based heaters*

Waste water infrastructures

Flushing Toilets&Urinals*

Imaging Equipment*

Roads

Combined Heat & Power

Street lighting and traffic signals

Indoor lighting

Sanitary tapware*

EEE Health care sector

Criteria under development

- Street lighting
- Food and Catering
- Cleaning Services
- Transport
- Paints and Varnishes
- Data Centres
- Imaging Equipment
- Public Space Management

EU Green Public Procurement Policy

GPP(GPP/Ecolabel) development process by the Joint Research Centre and DG Environment

Two levels of criteria

Core criteria:

- Aim at addressing the key environmental impacts
- Require minimum additional verification effort or cost increases.

Comprehensive criteria:

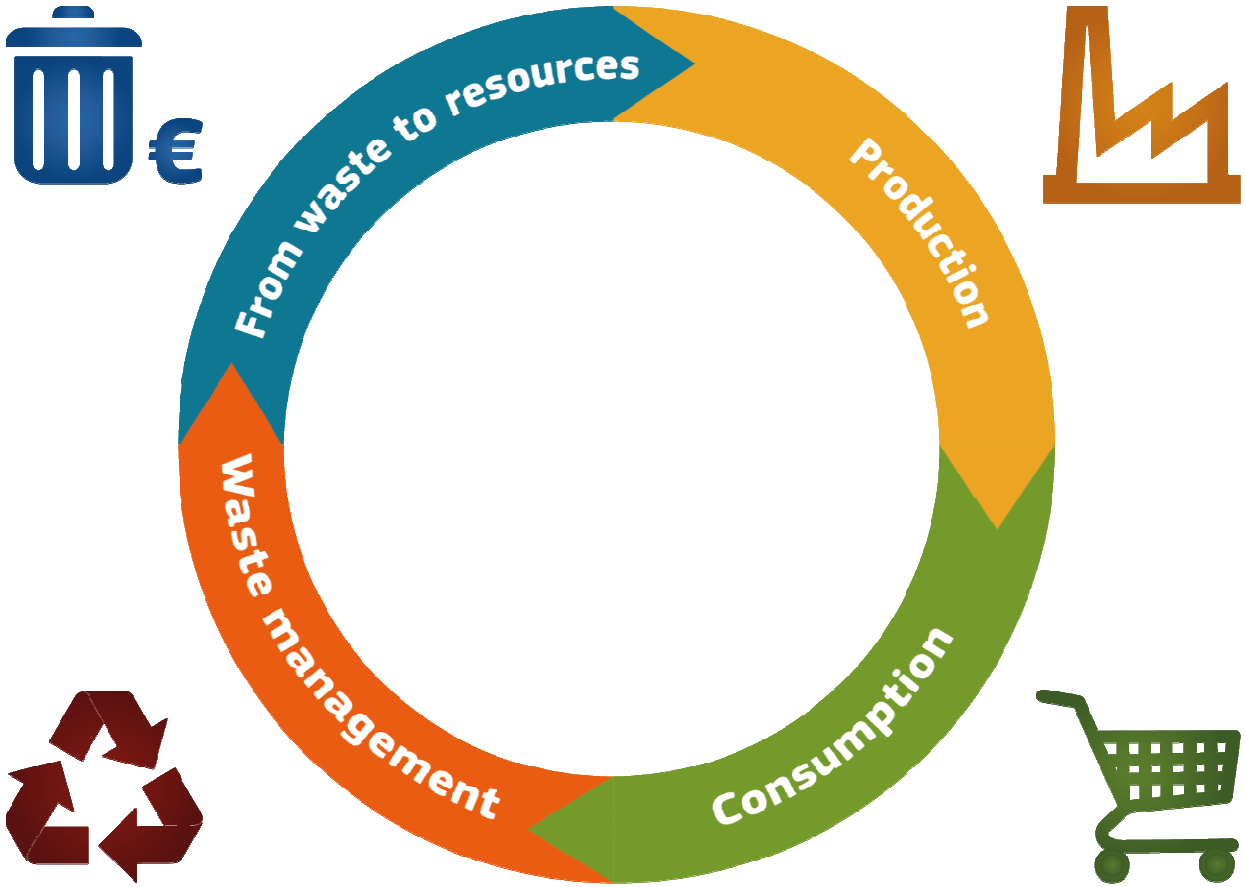
- Aim at purchasing the best environmental products available on the market
- possibly requiring additional verification efforts or a slight increase in cost compared to other products with the same functionality.

Often adapted by MS/CA to national circumstances

GPP criteria are largely based on standard Type I ecolabels.

From a Linear Economy…

...to a Circular Economy



Green Public Procurement in CE AP

- *Key role for circular economy acknowledged*
- *Special emphasis on circular economy aspects in criteria-setting*
- *Support a greater uptake of GPP criteria by public authorities, e.g. by training*
- *Commission to lead by example - in its own procurement, and by reinforcing the use of GPP in EU funding*

Reinforcing CE aspects in GPP criteria
Examples

- *Replaceability and longer life-time of batteries in laptops*
- *Easy dismantling of monitors for recycling*
- *Easy repair of furniture, incl. spare part availability*
- *Encourage use of recycled materials in construction*

EU Green Public Procurement Policy

Circular Procurement Congress
19 October Tallinn

Support higher uptake of GPP

- Training
- Technical assistance
- Peer-to-peer learning

EU Green Public Procurement Policy

Questions? Please contact:

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enrico.degiorgis@ec.europa.eu

GPP webpage: http://ec.europa.eu/environment/gpp

PRP® CIRCULAR PROCUREMENT

City Hall Wageningen
The Netherlands

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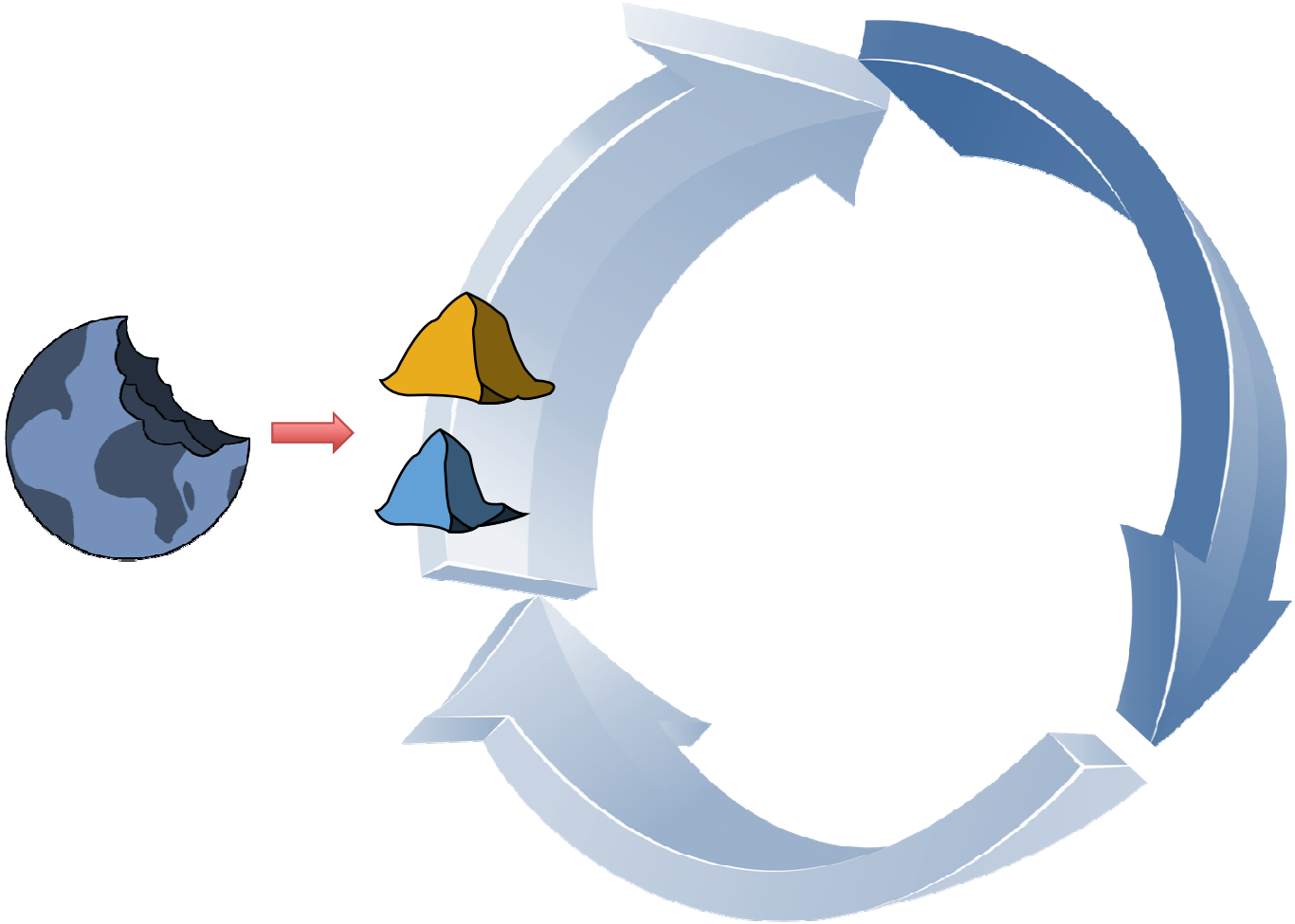

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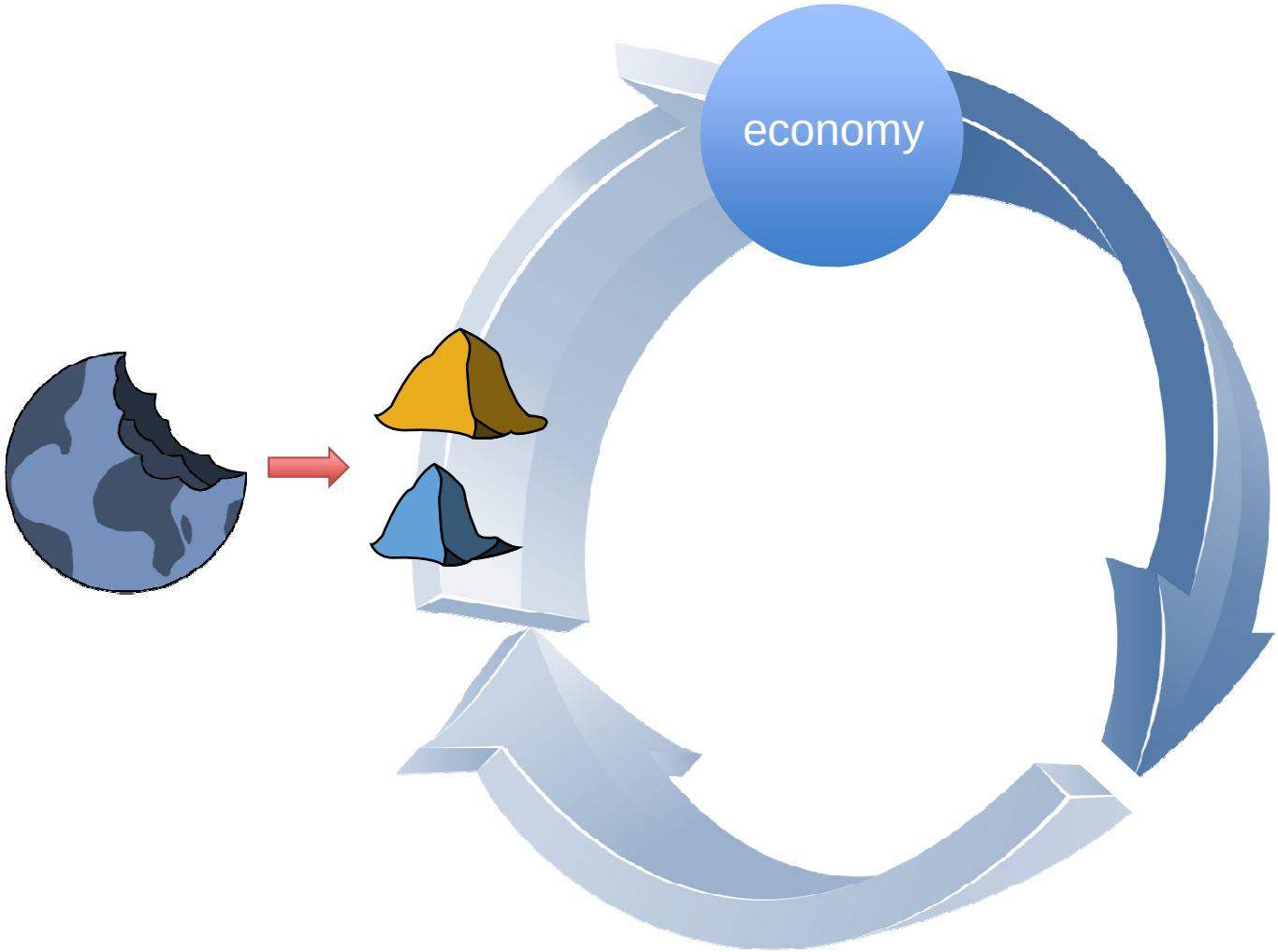

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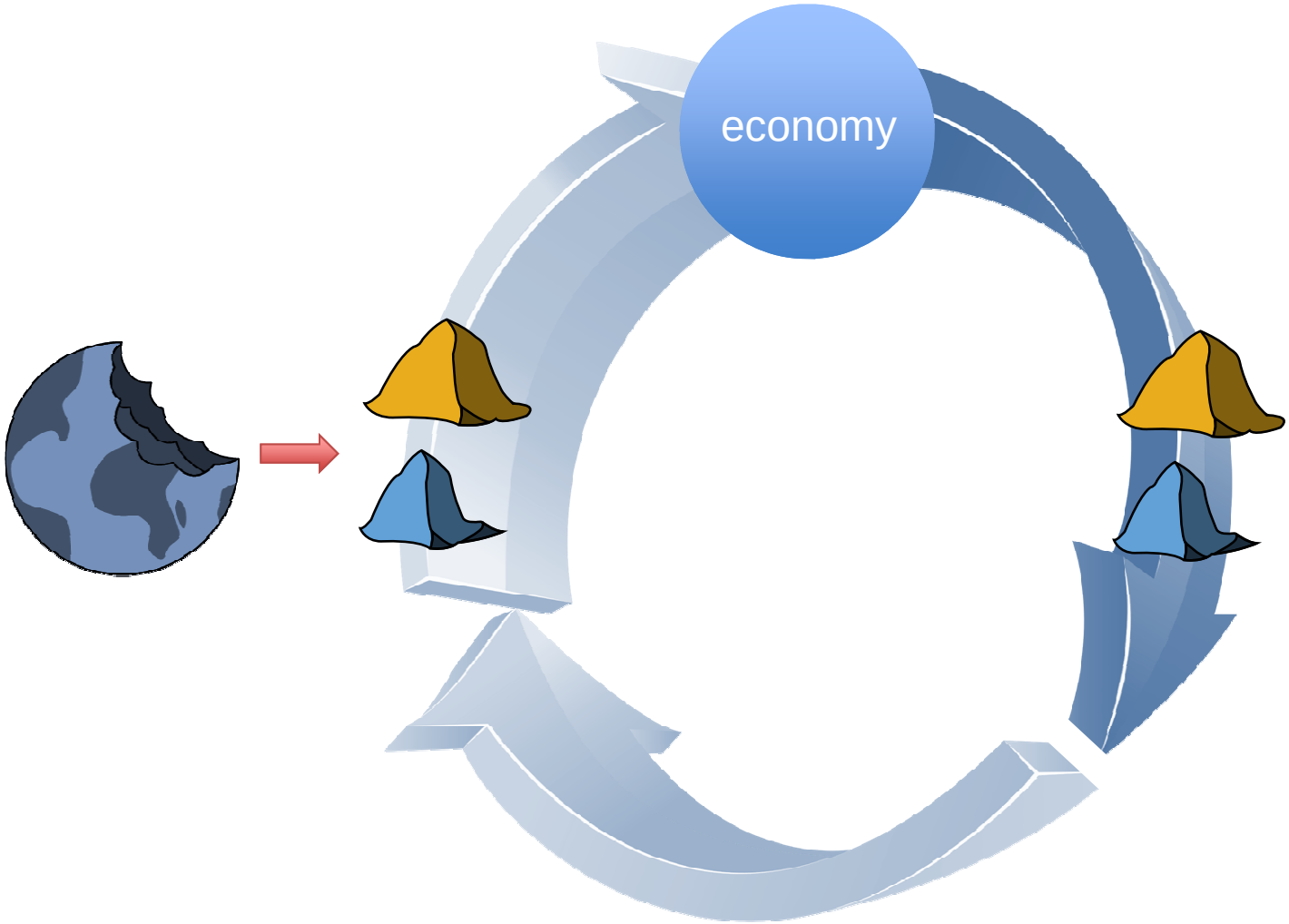

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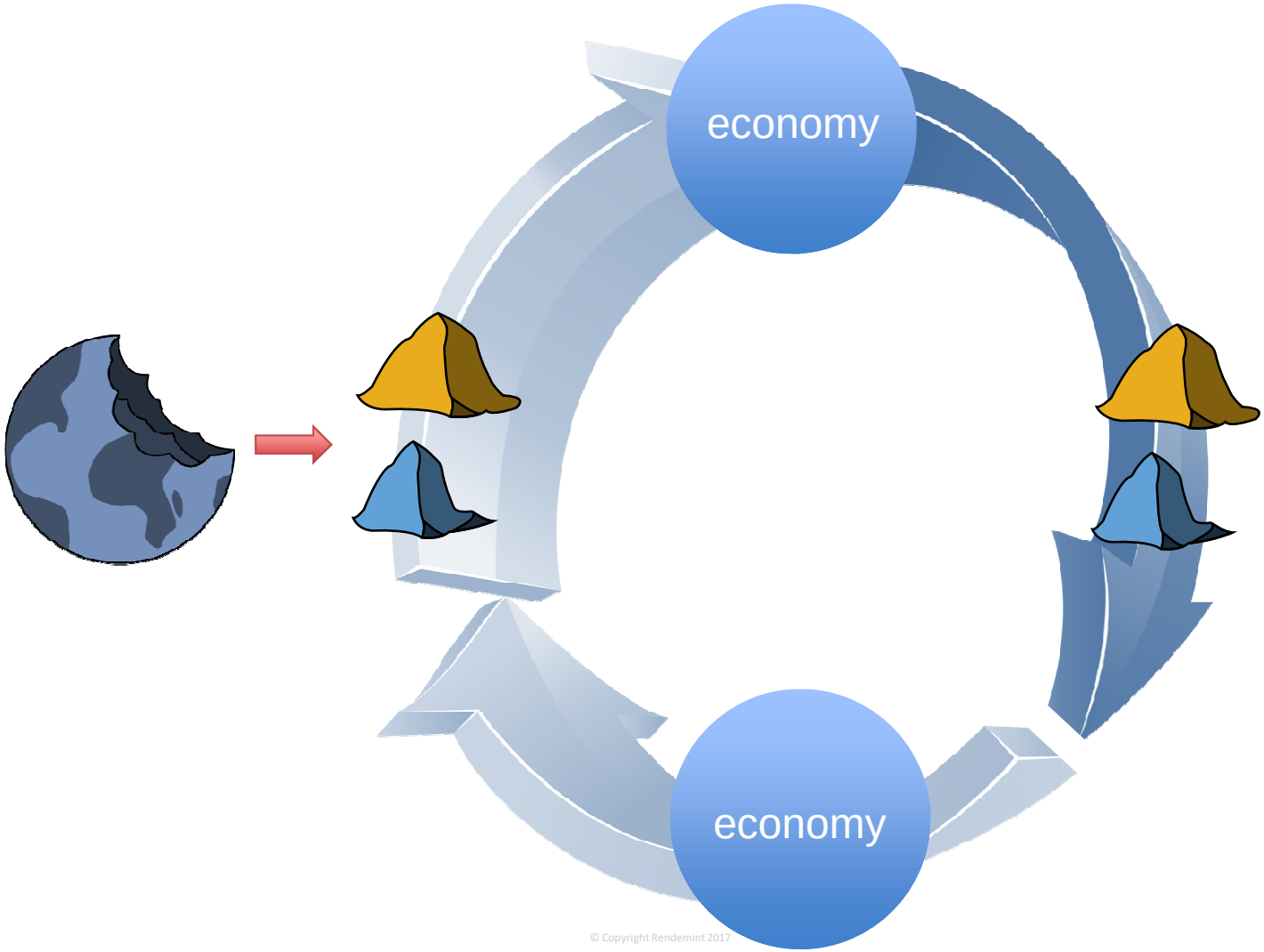

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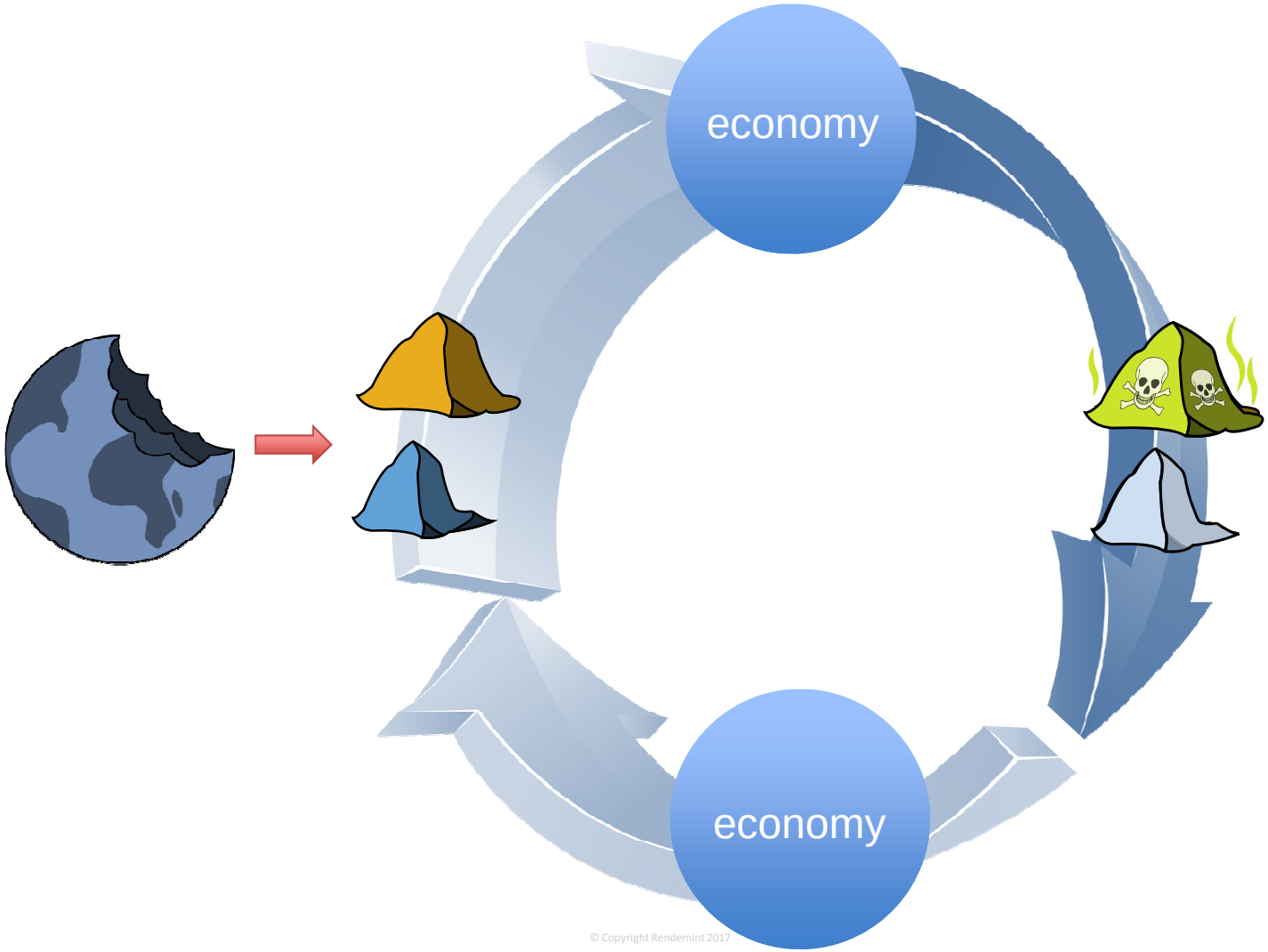

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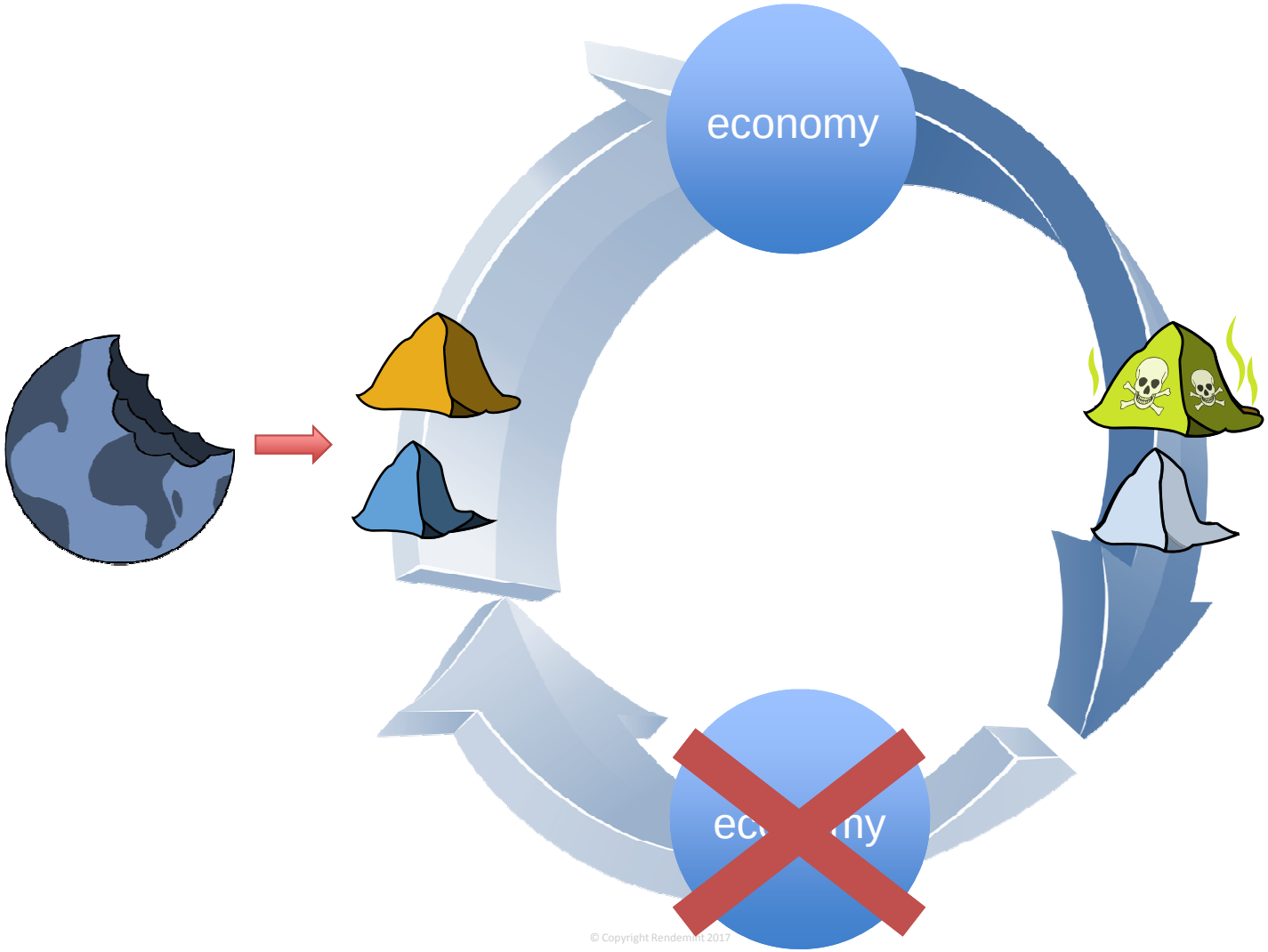

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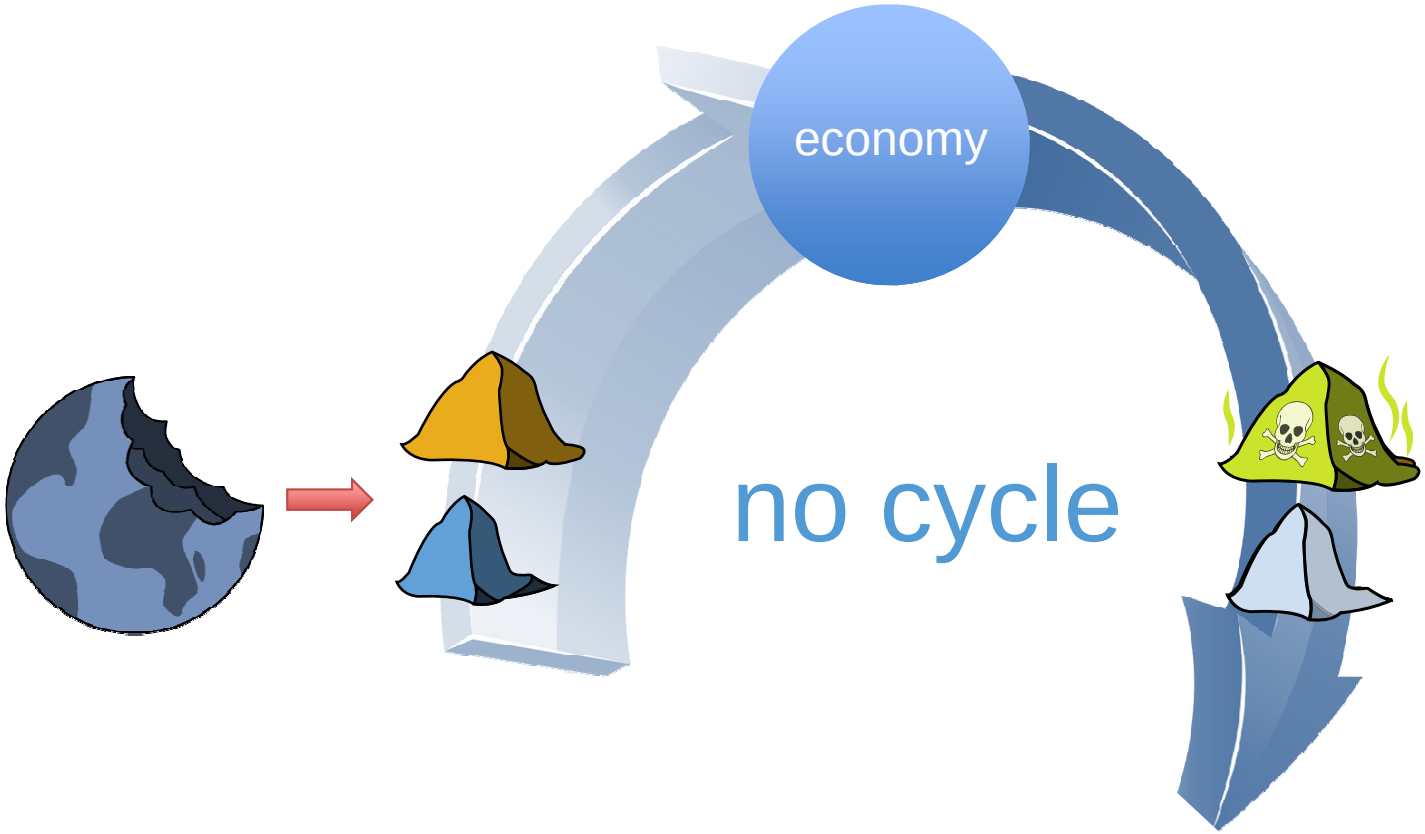

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linear

SYSTEM

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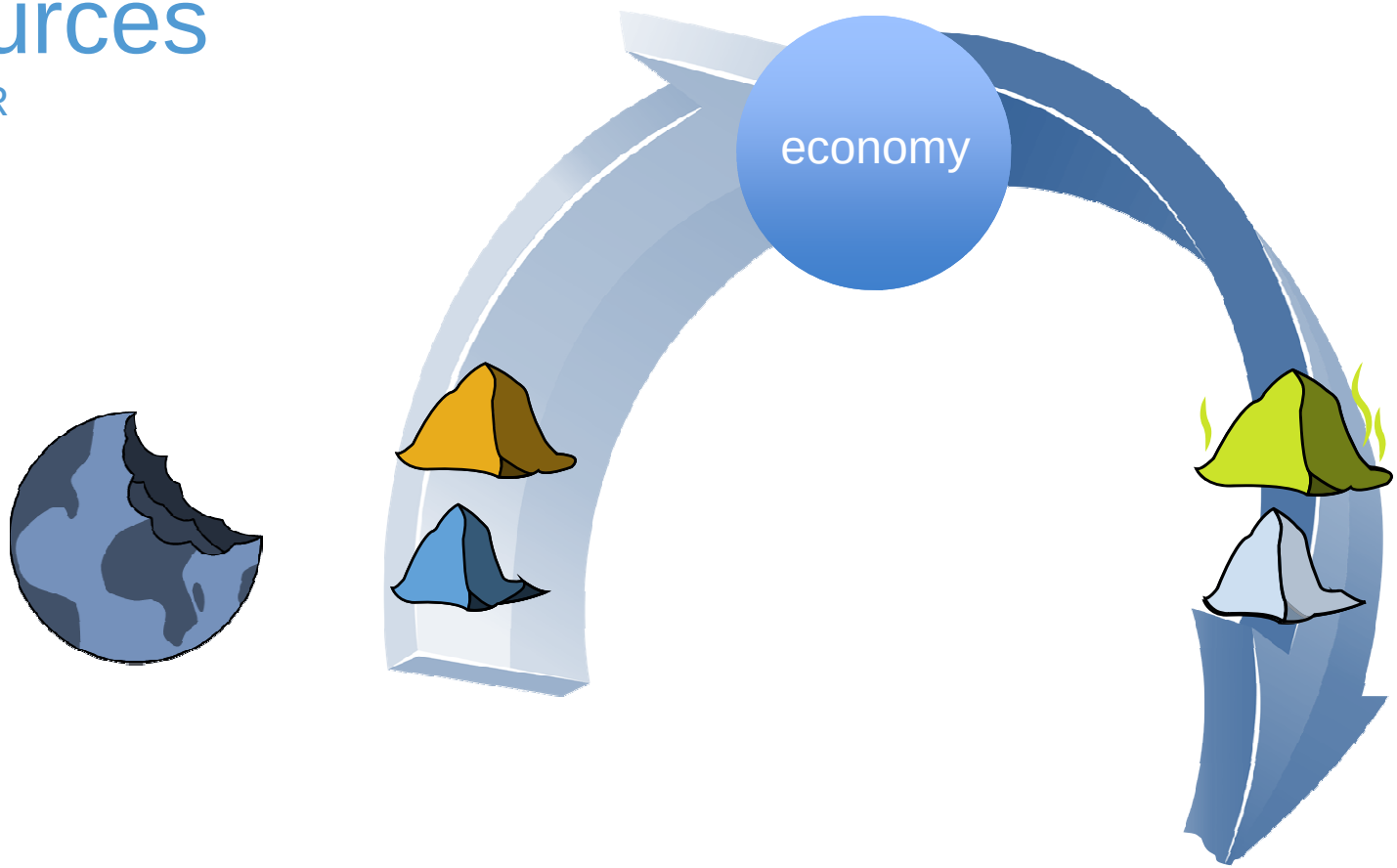

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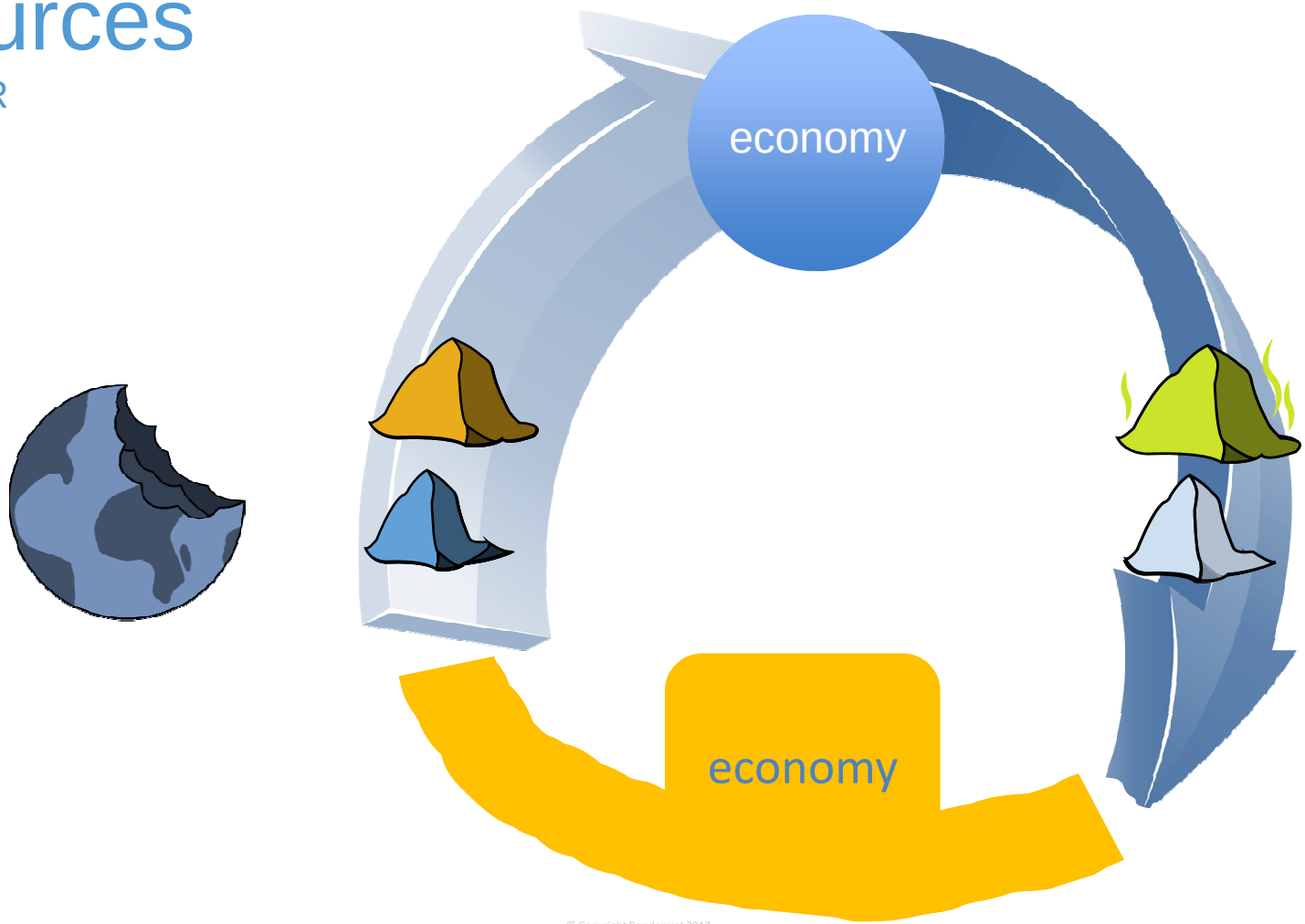

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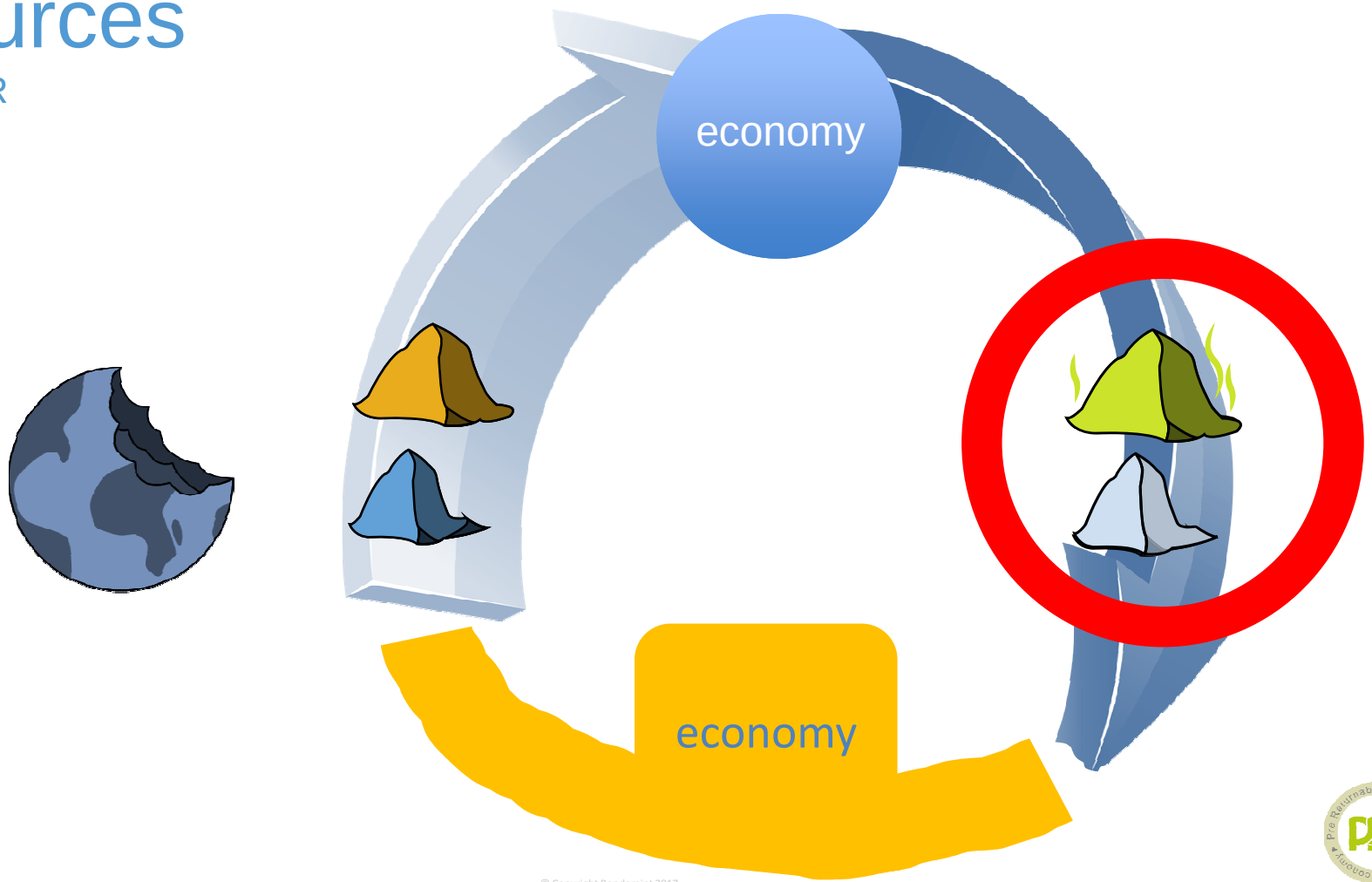

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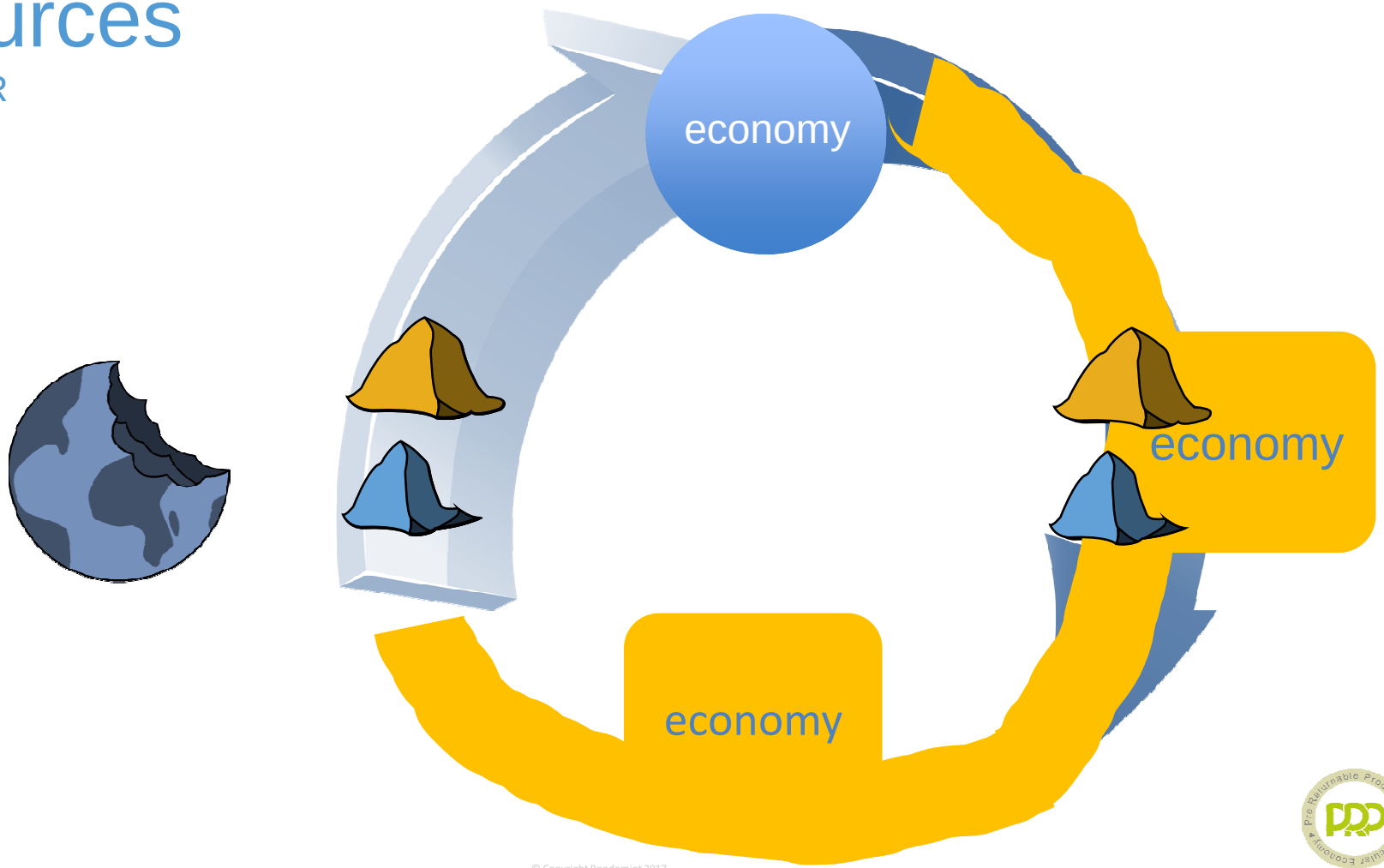

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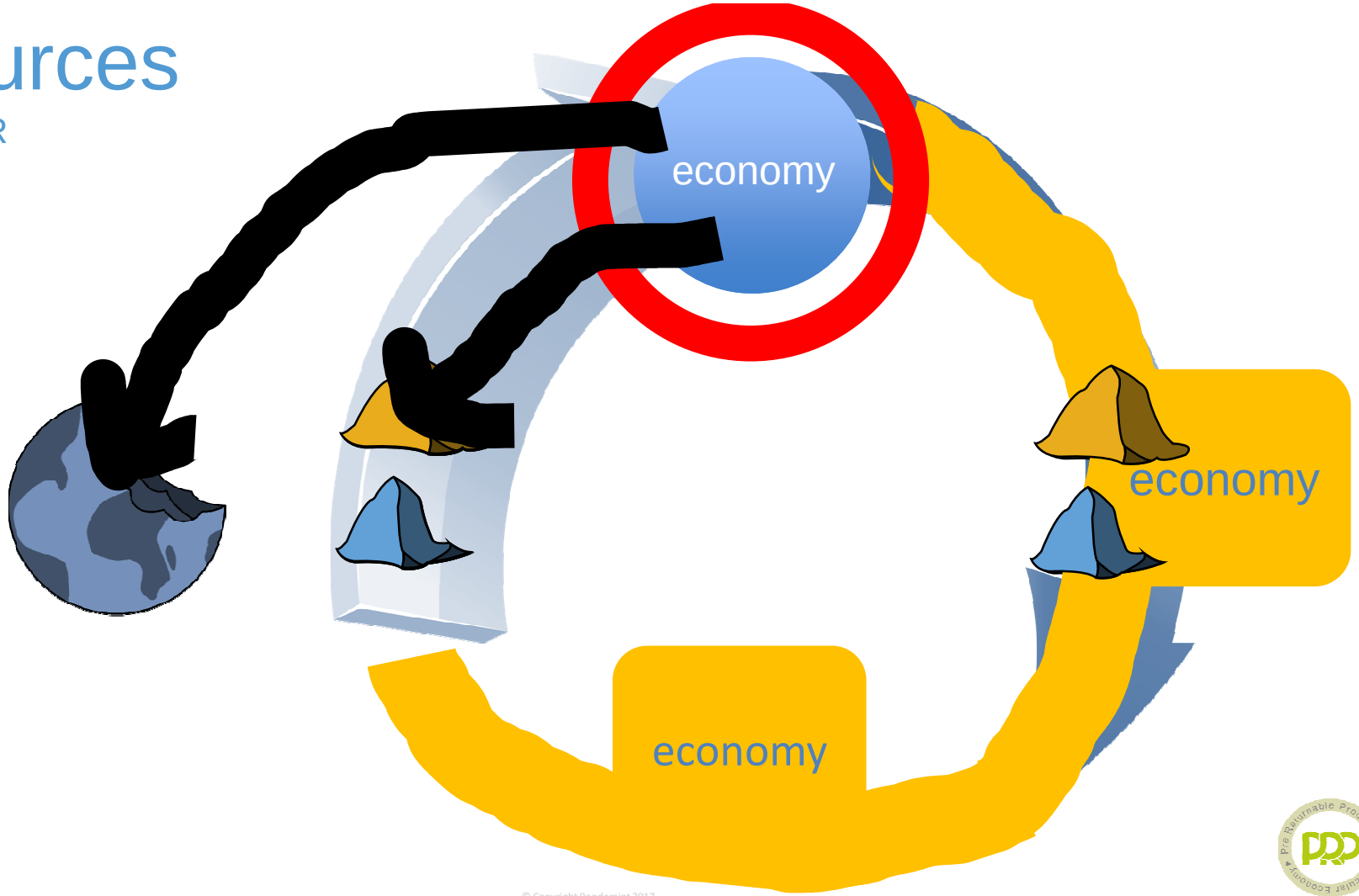

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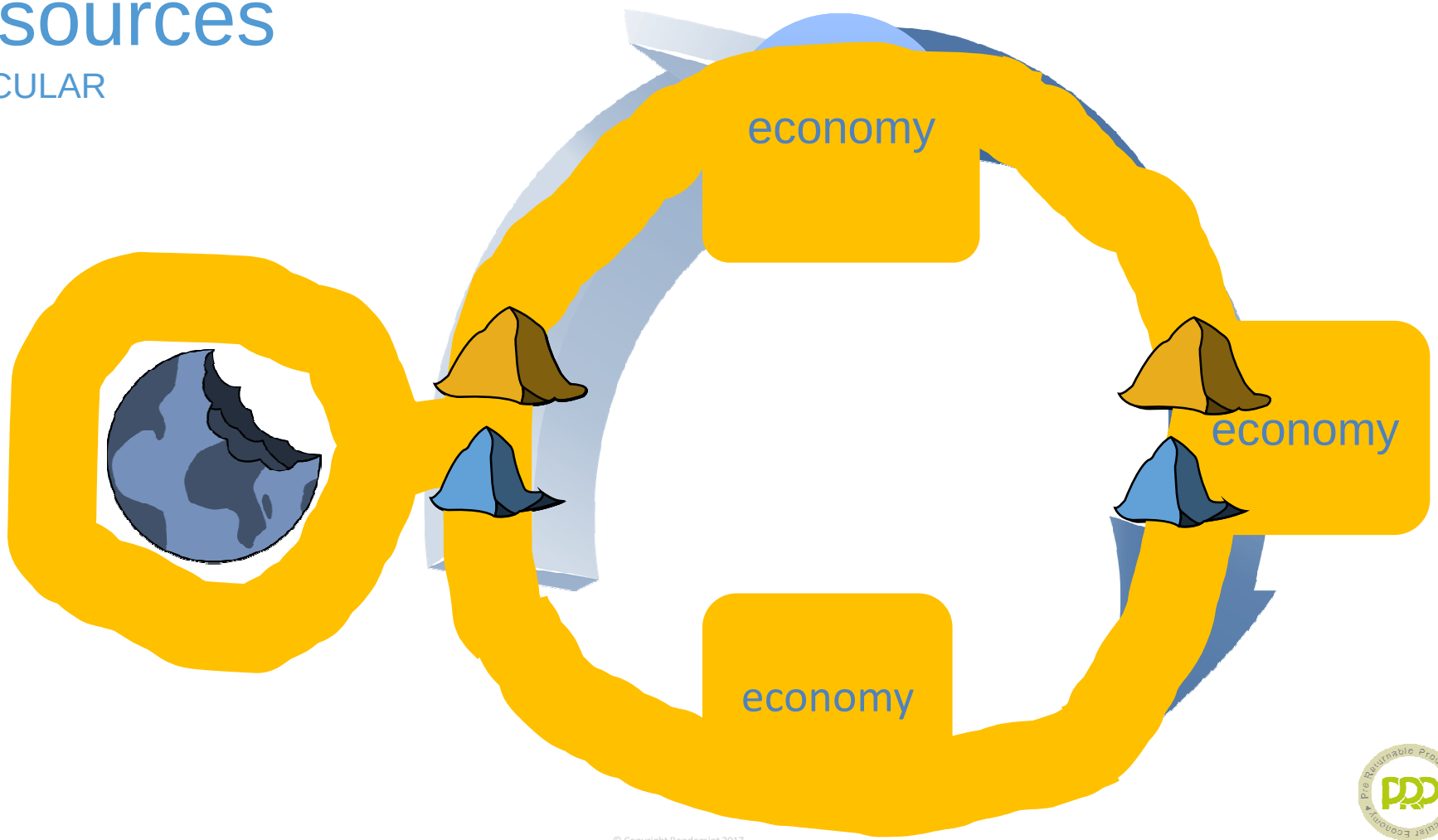

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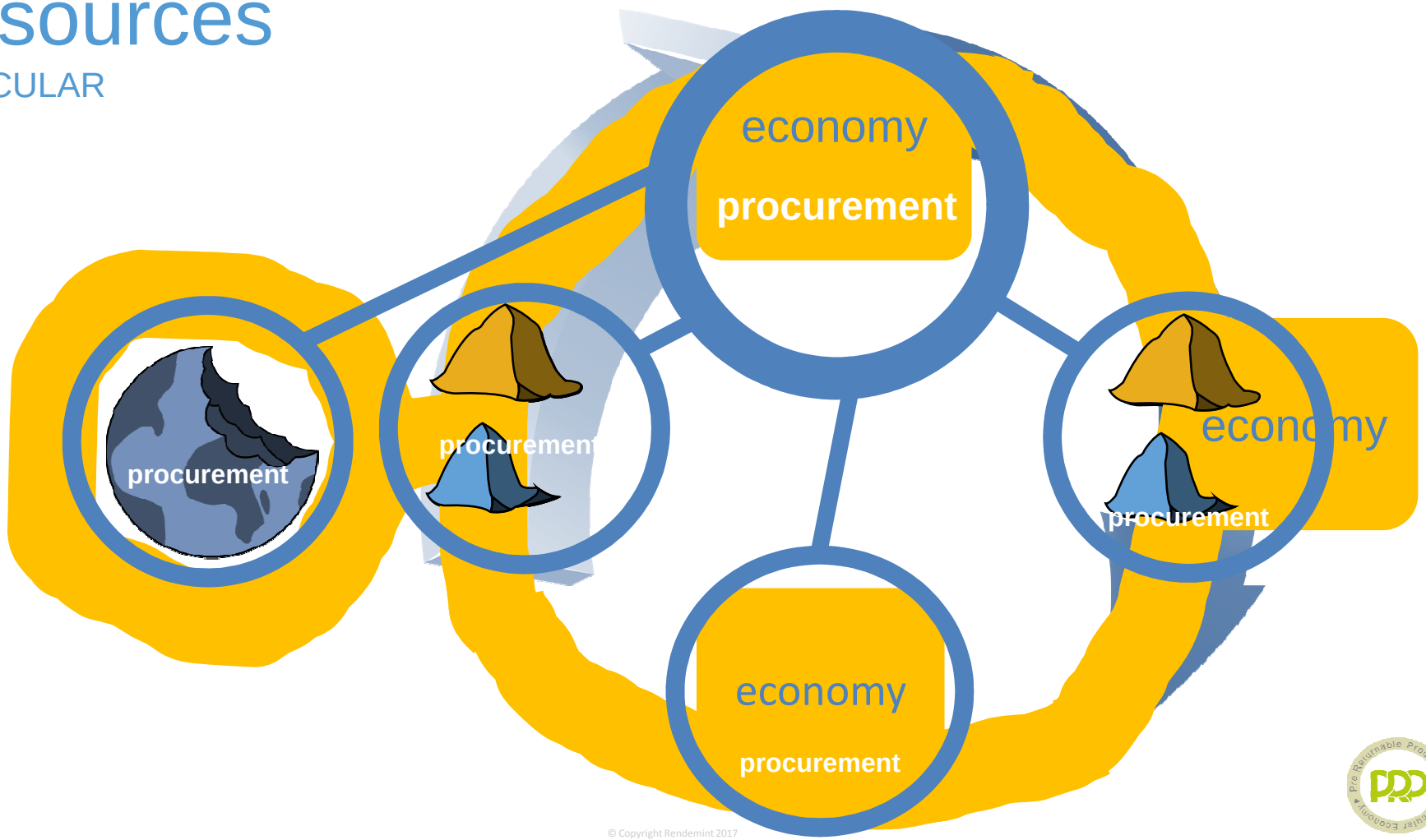

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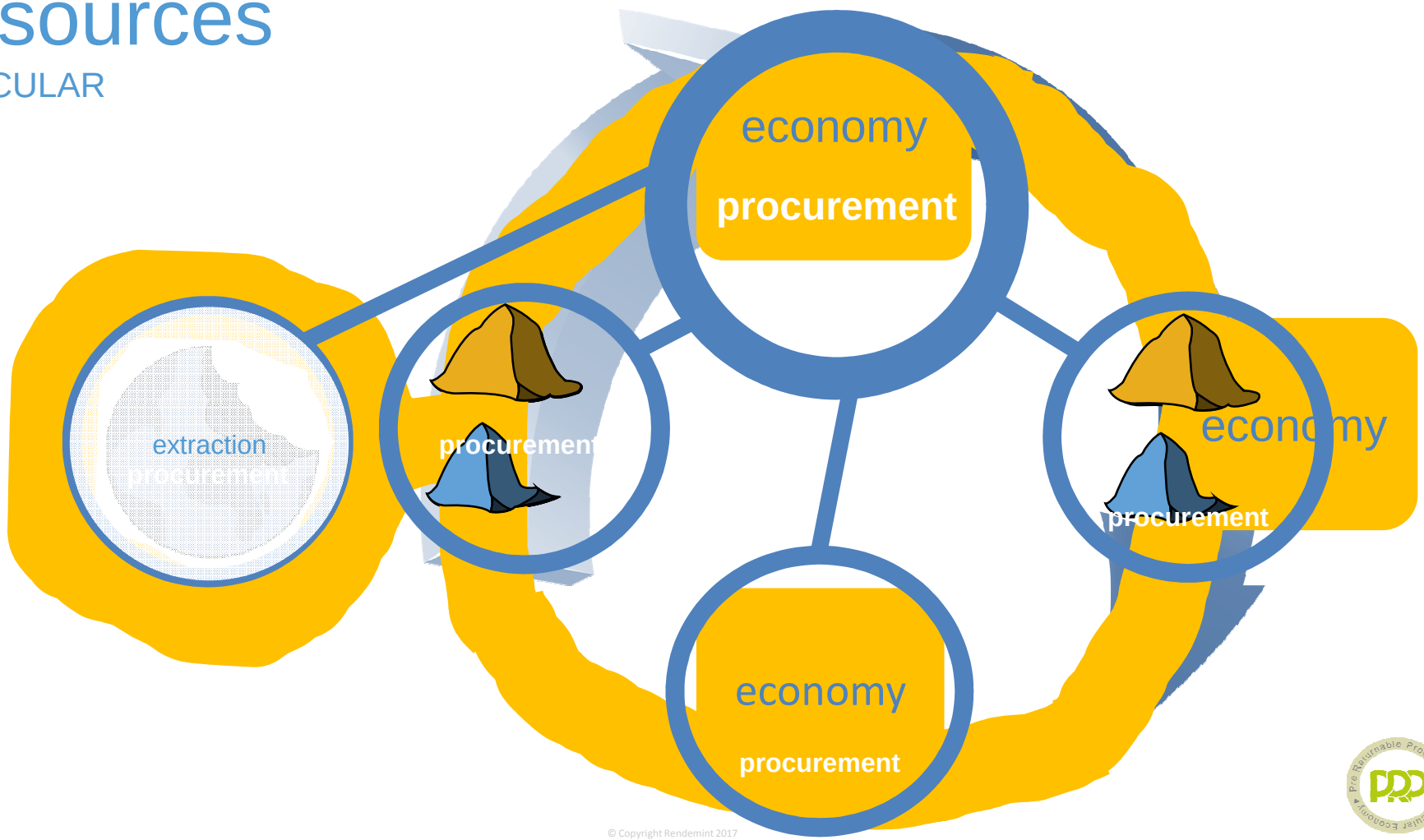

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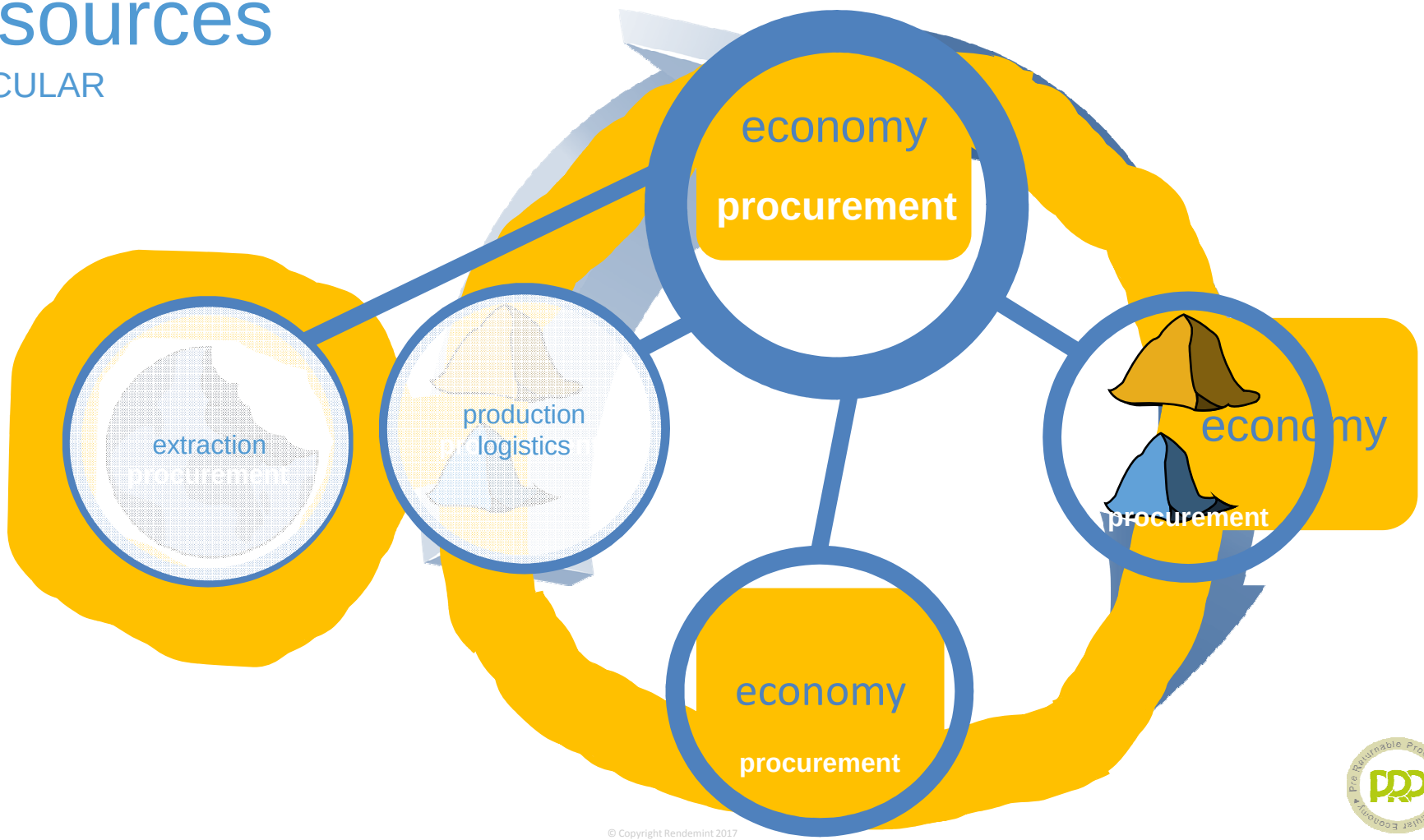

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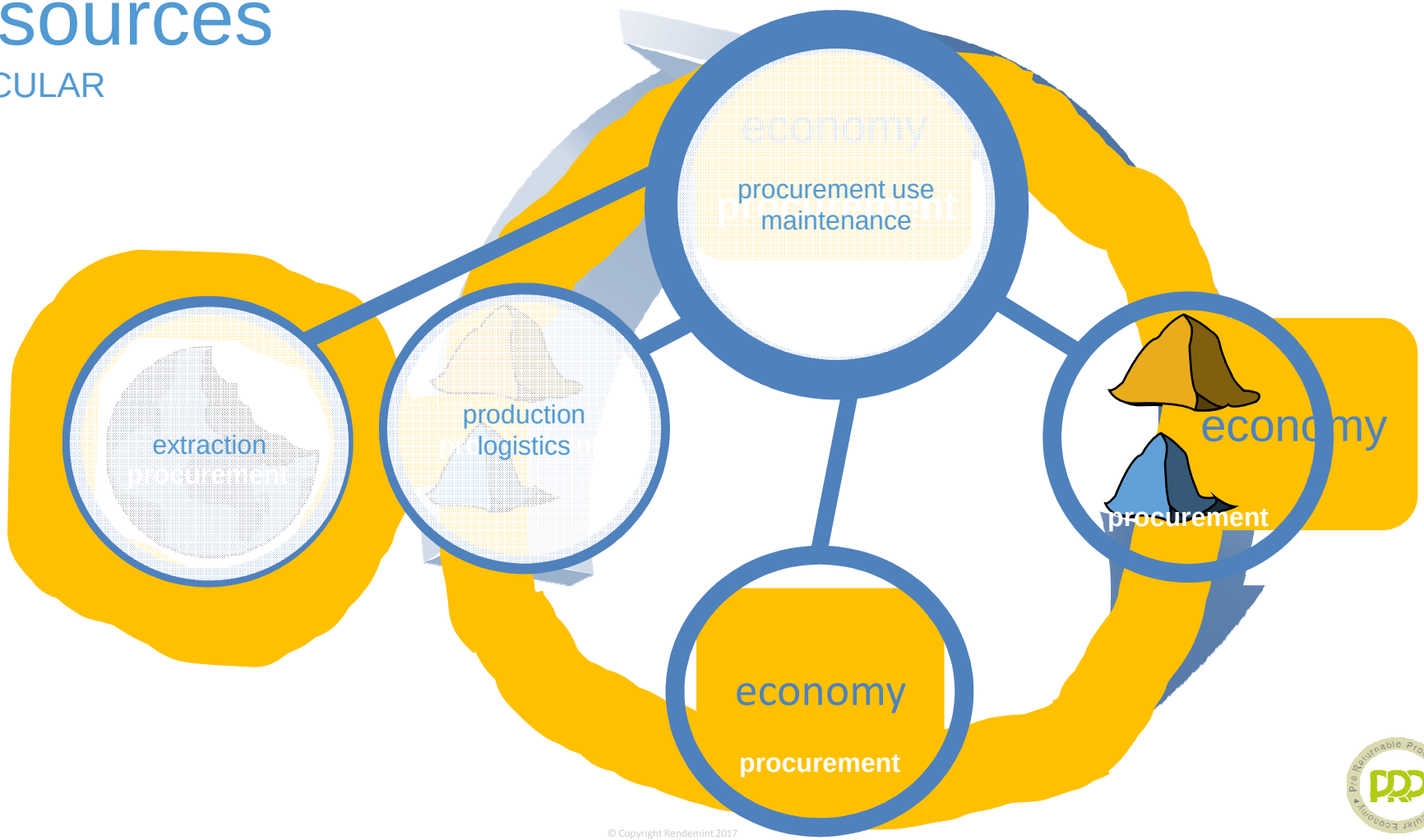

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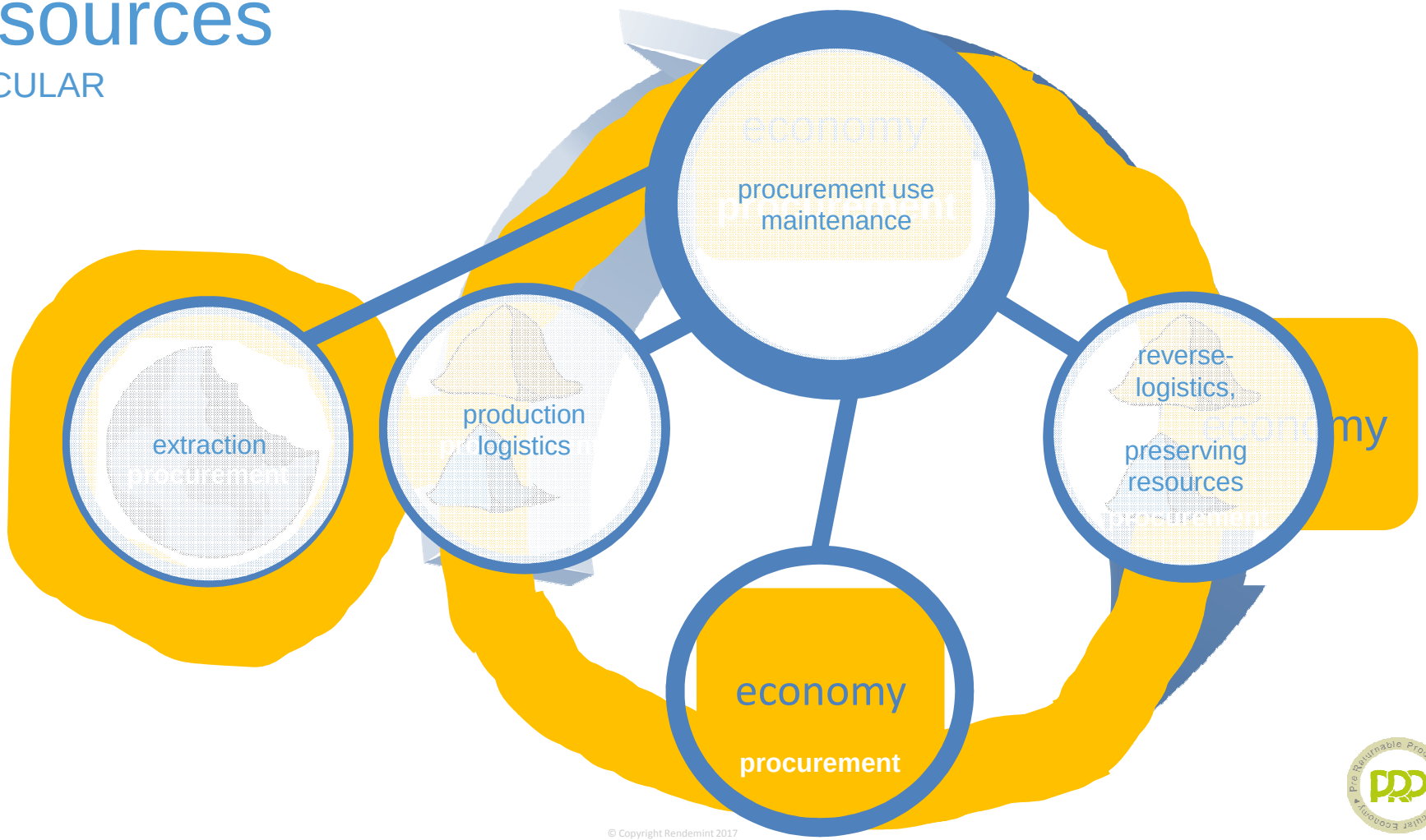

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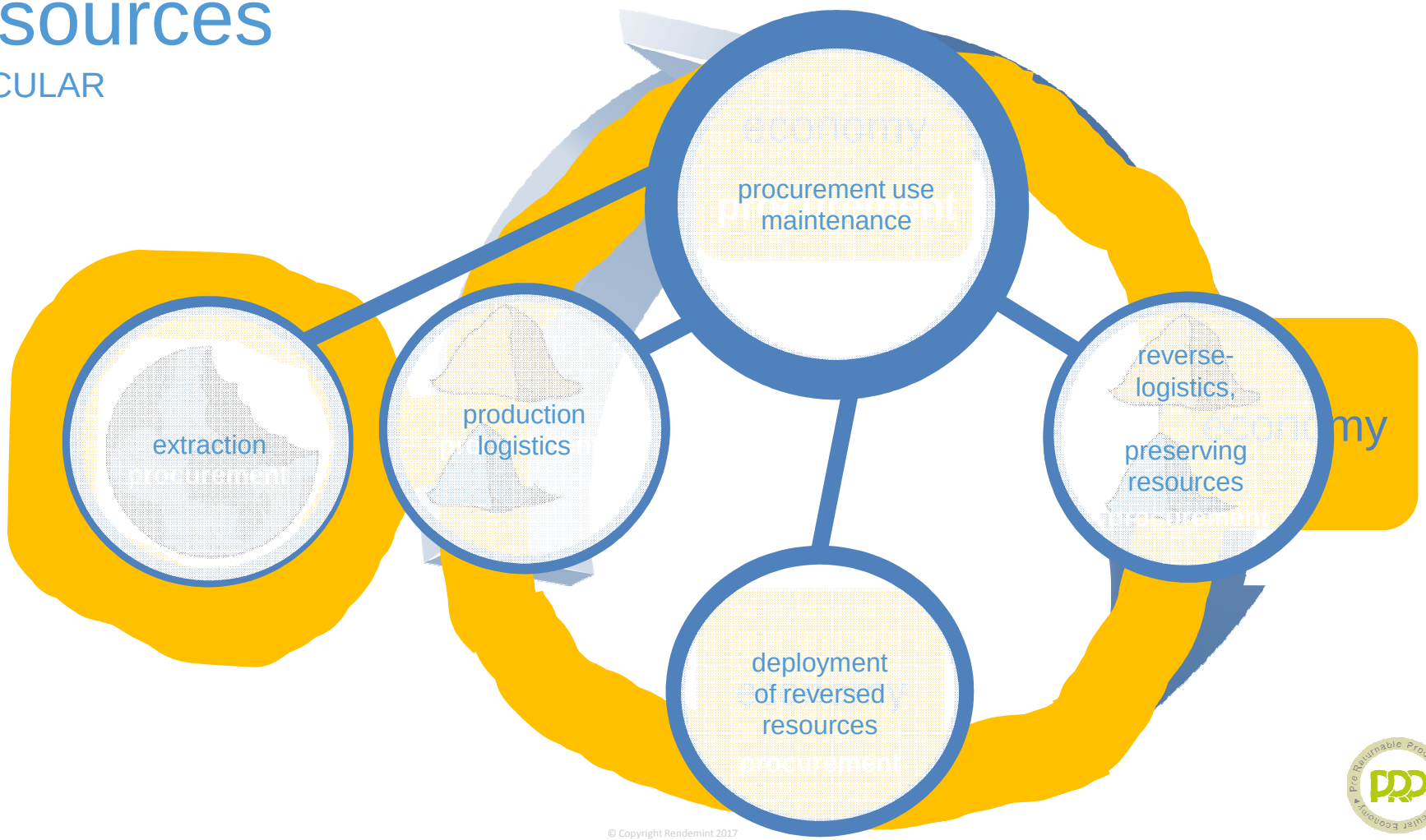

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DEFINITION

A circular economy is an economy that globally and regarding all aspects

meets the needs of the present without compromising
the ability of future generations to meet their own needs,

by intentionally making all actions of mankind
regarding resources and people in that economy
restorable to an earlier and/or original state.

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Each step is restorable to an earlier state?

restorable: level	back to resource level
restorable: quantity	back to original quantity
restorable: quality	back to original quality
restorable: health	back to ‘original’ health

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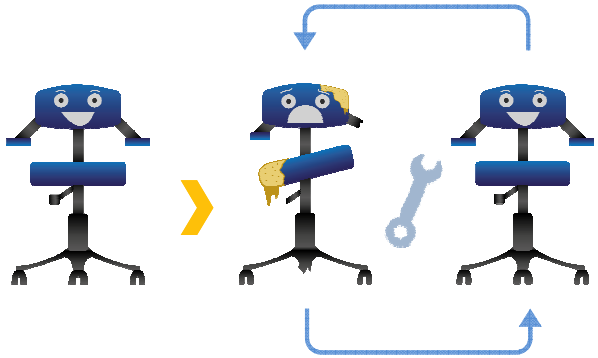

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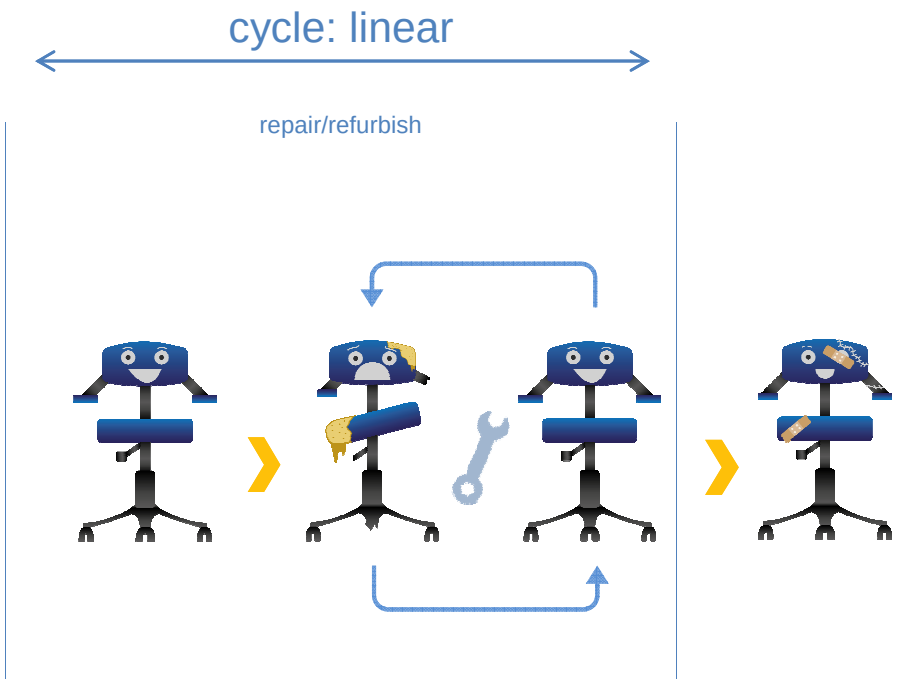

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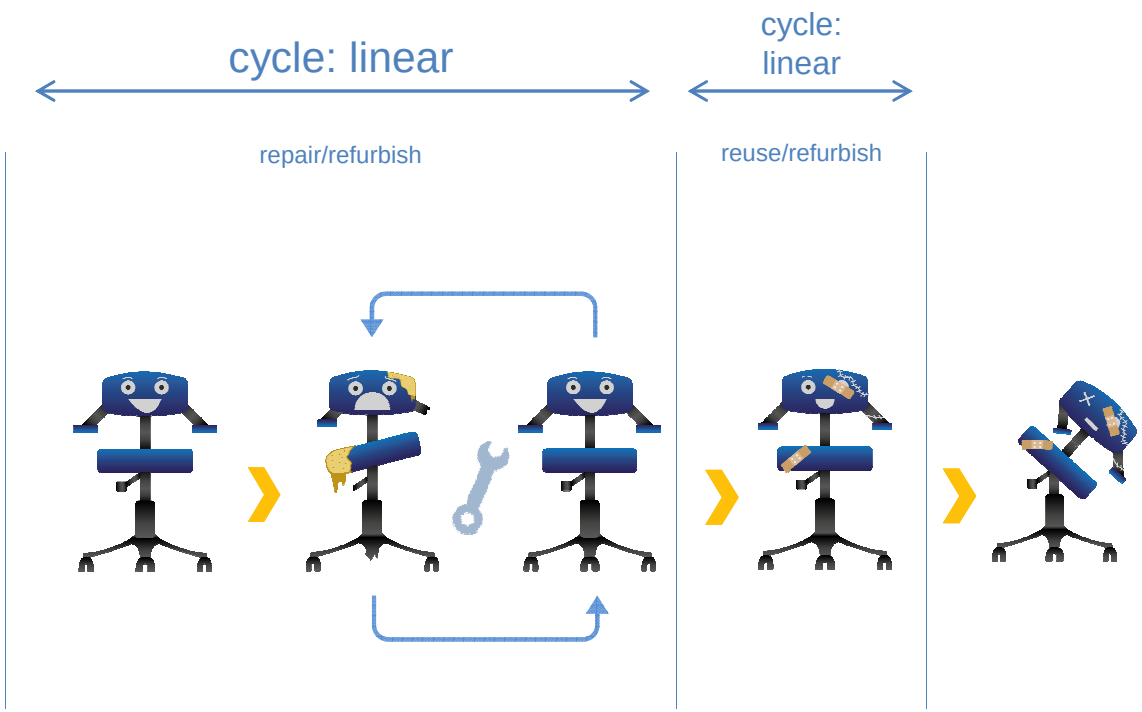

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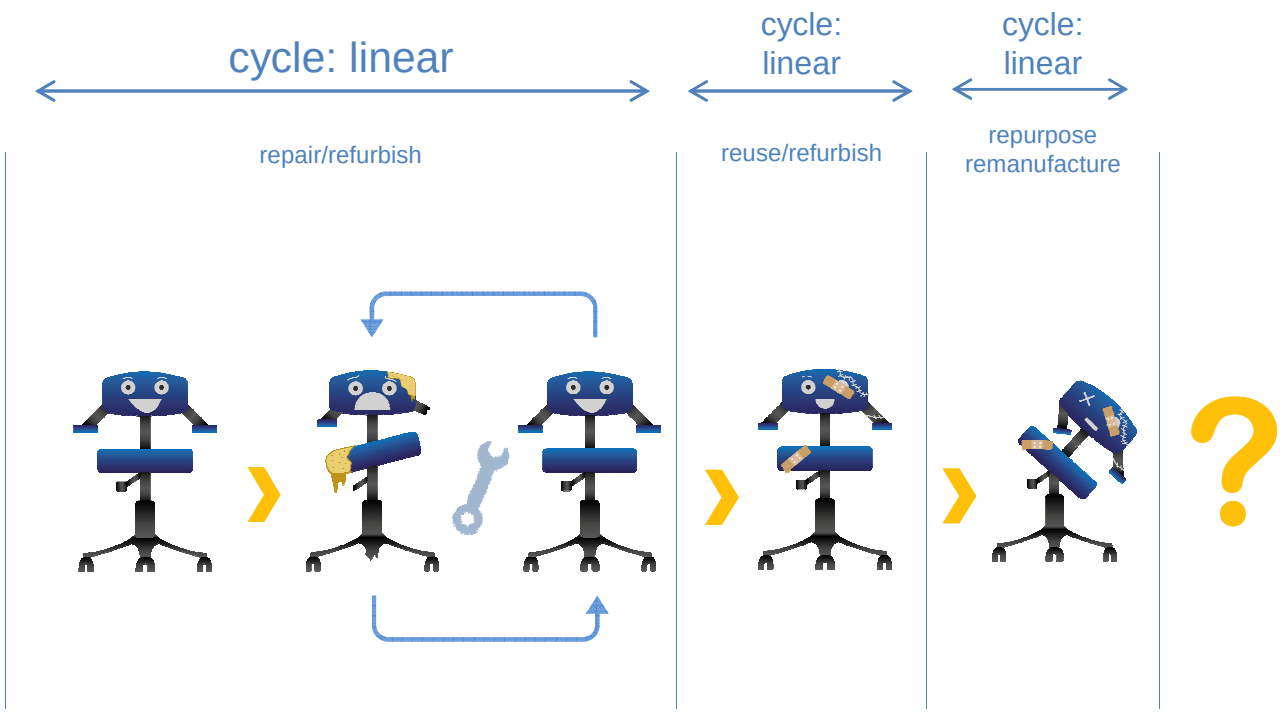

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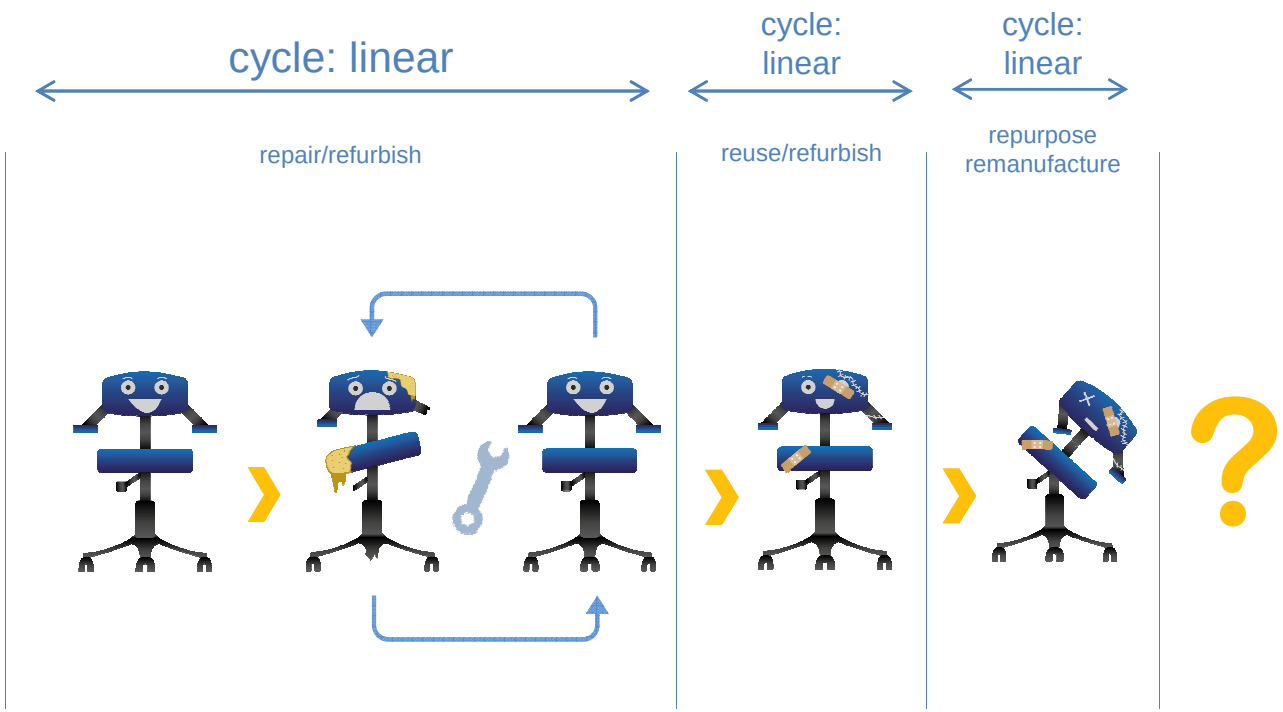

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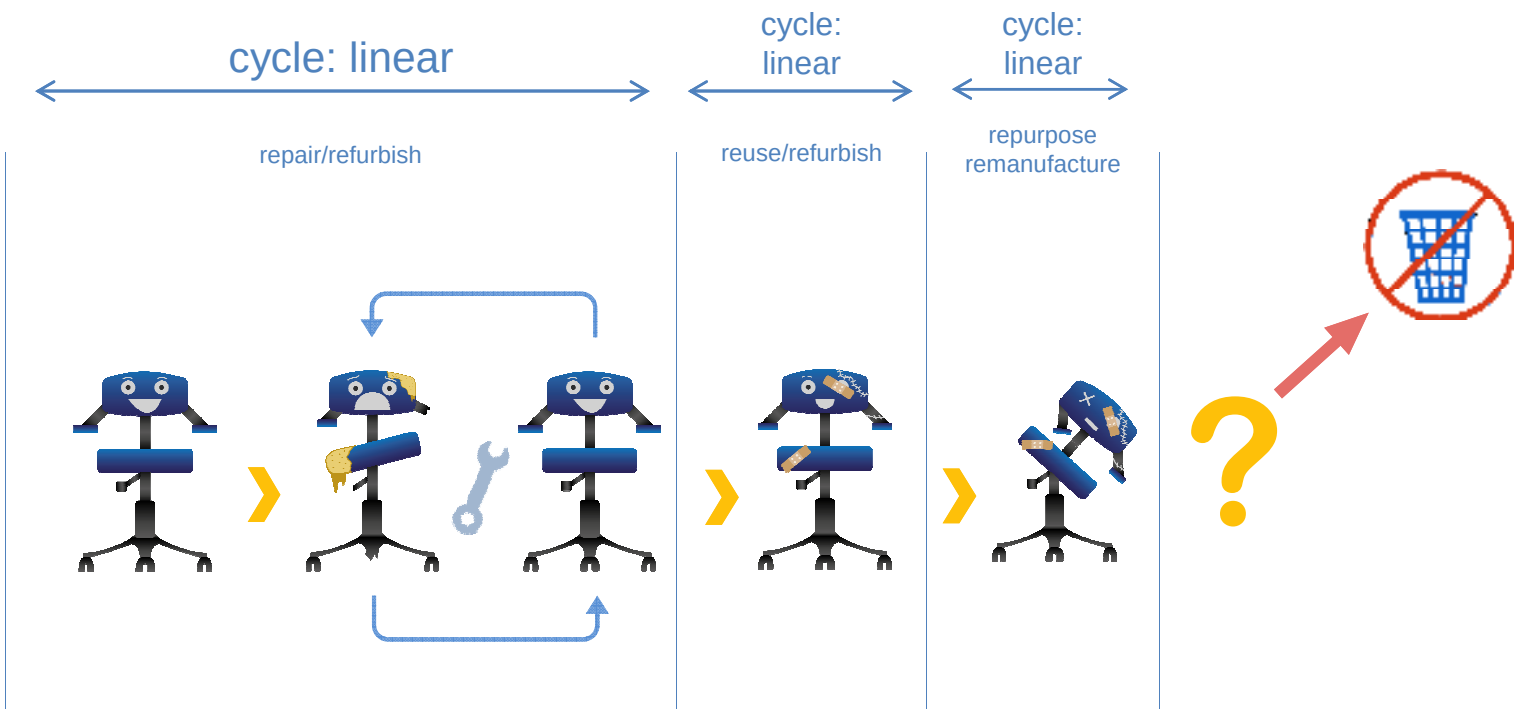

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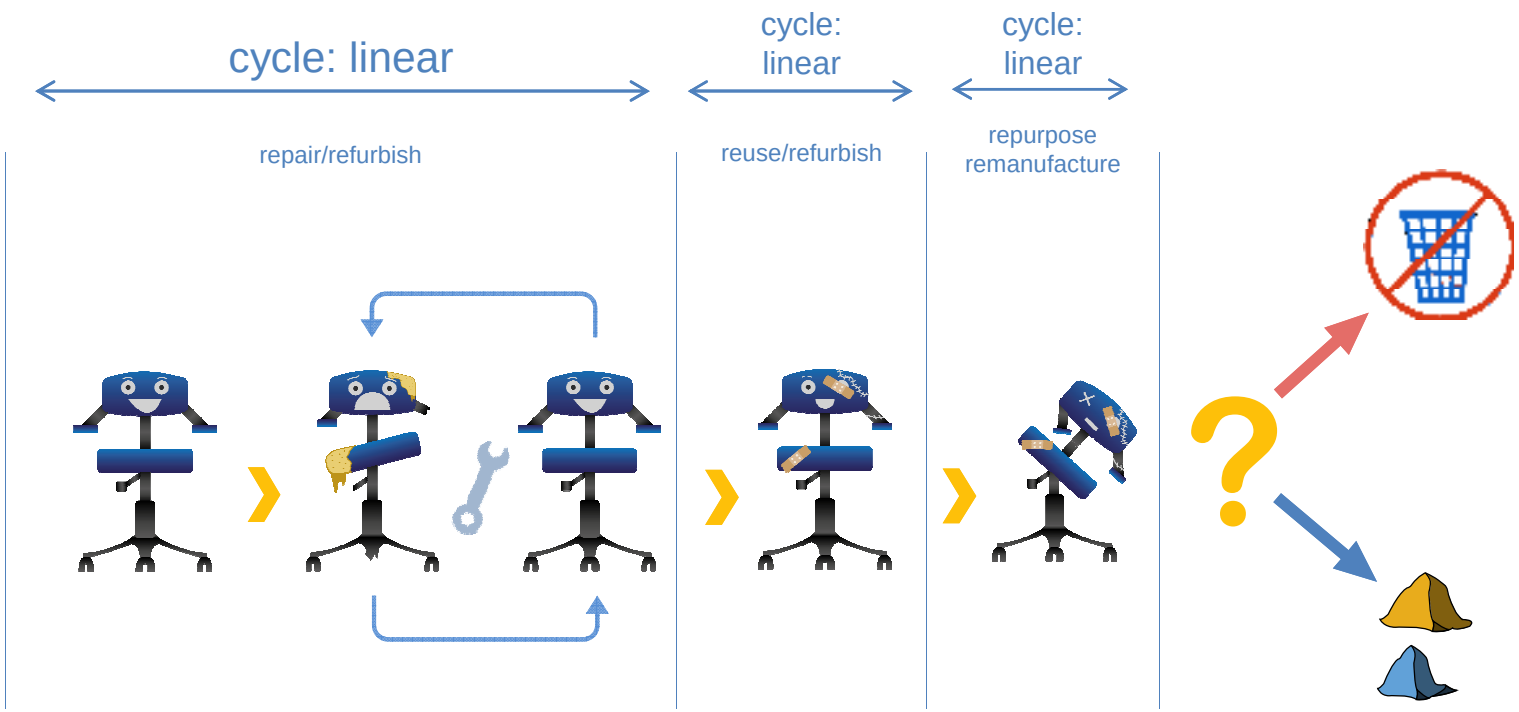

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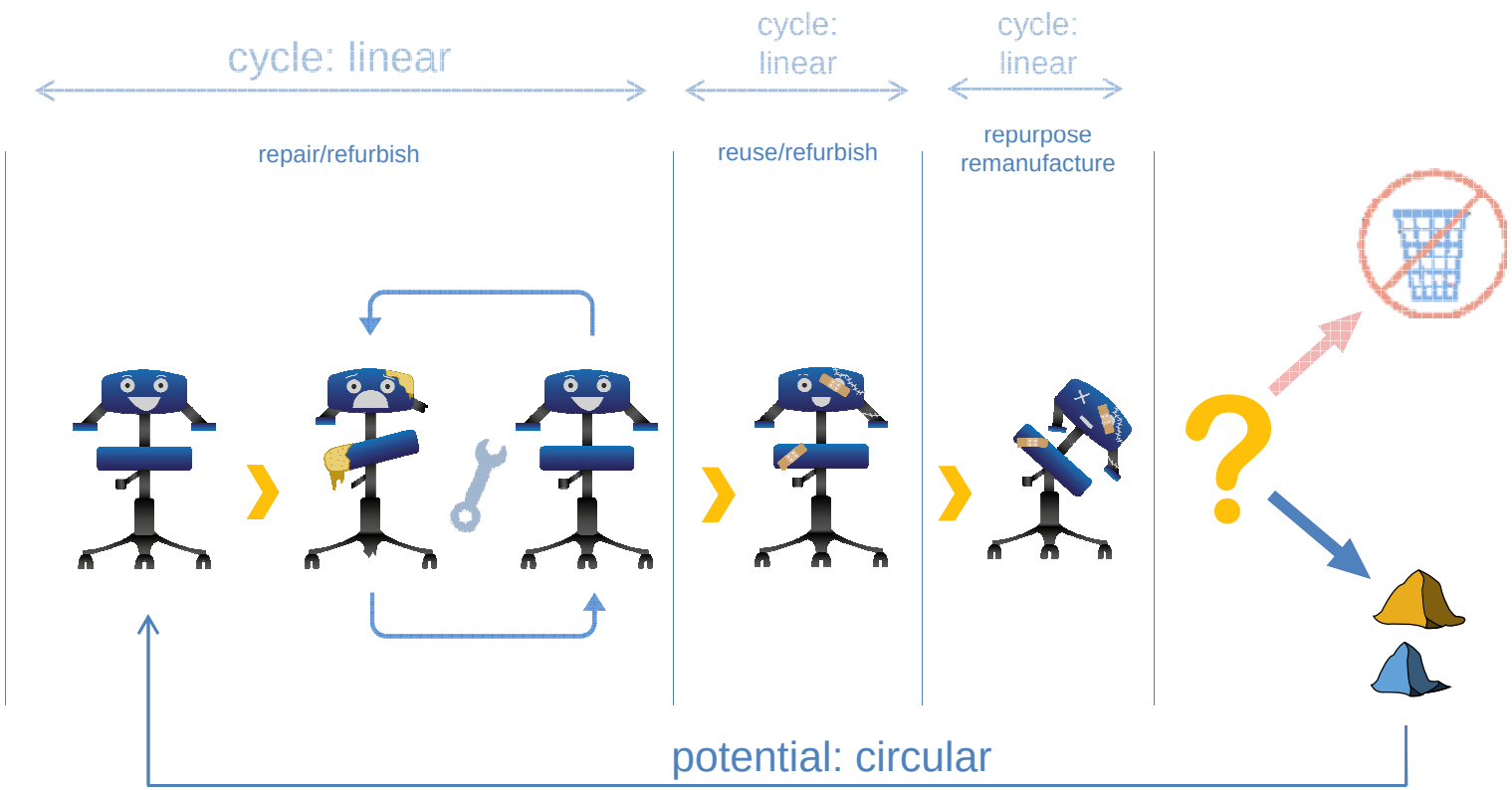

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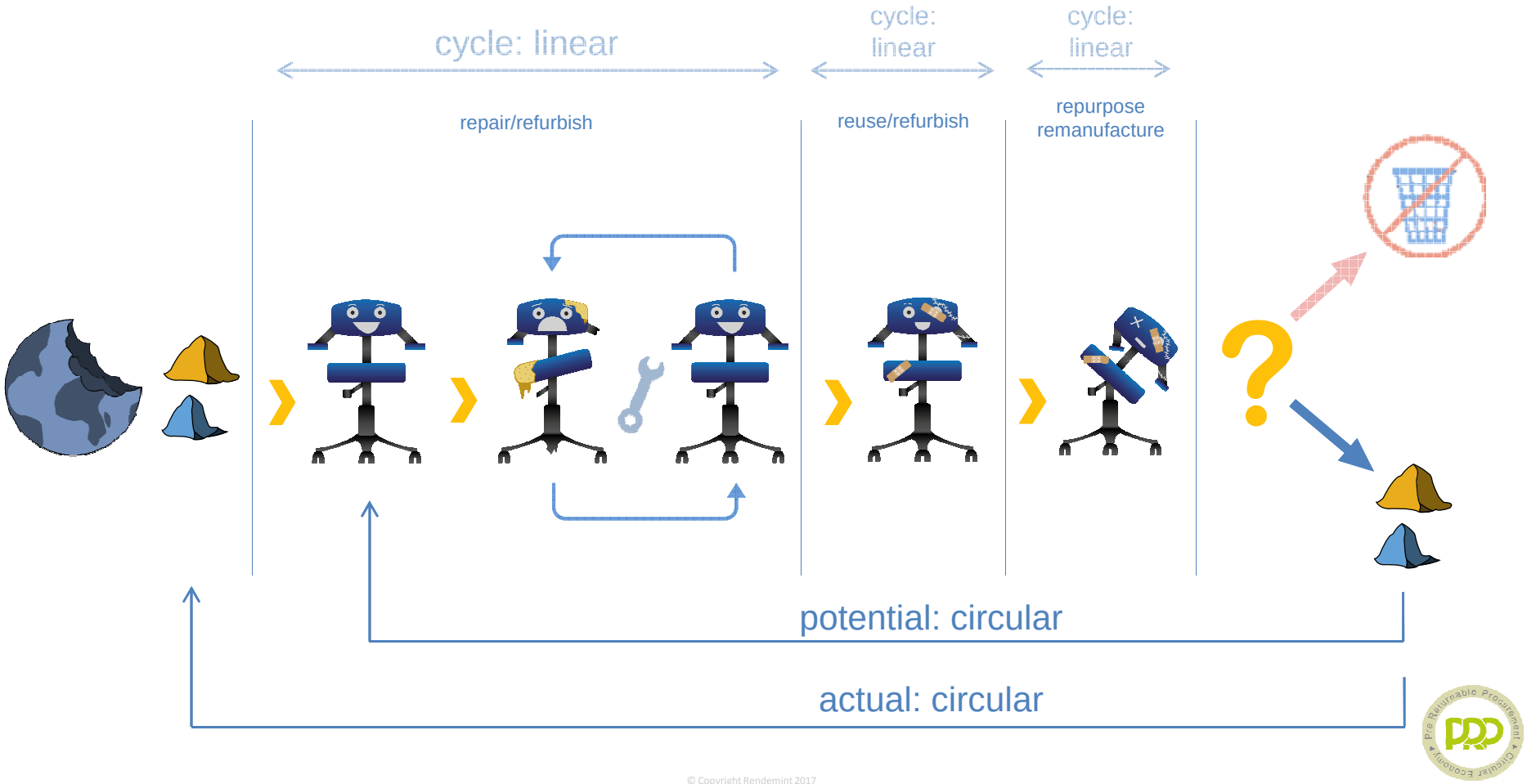

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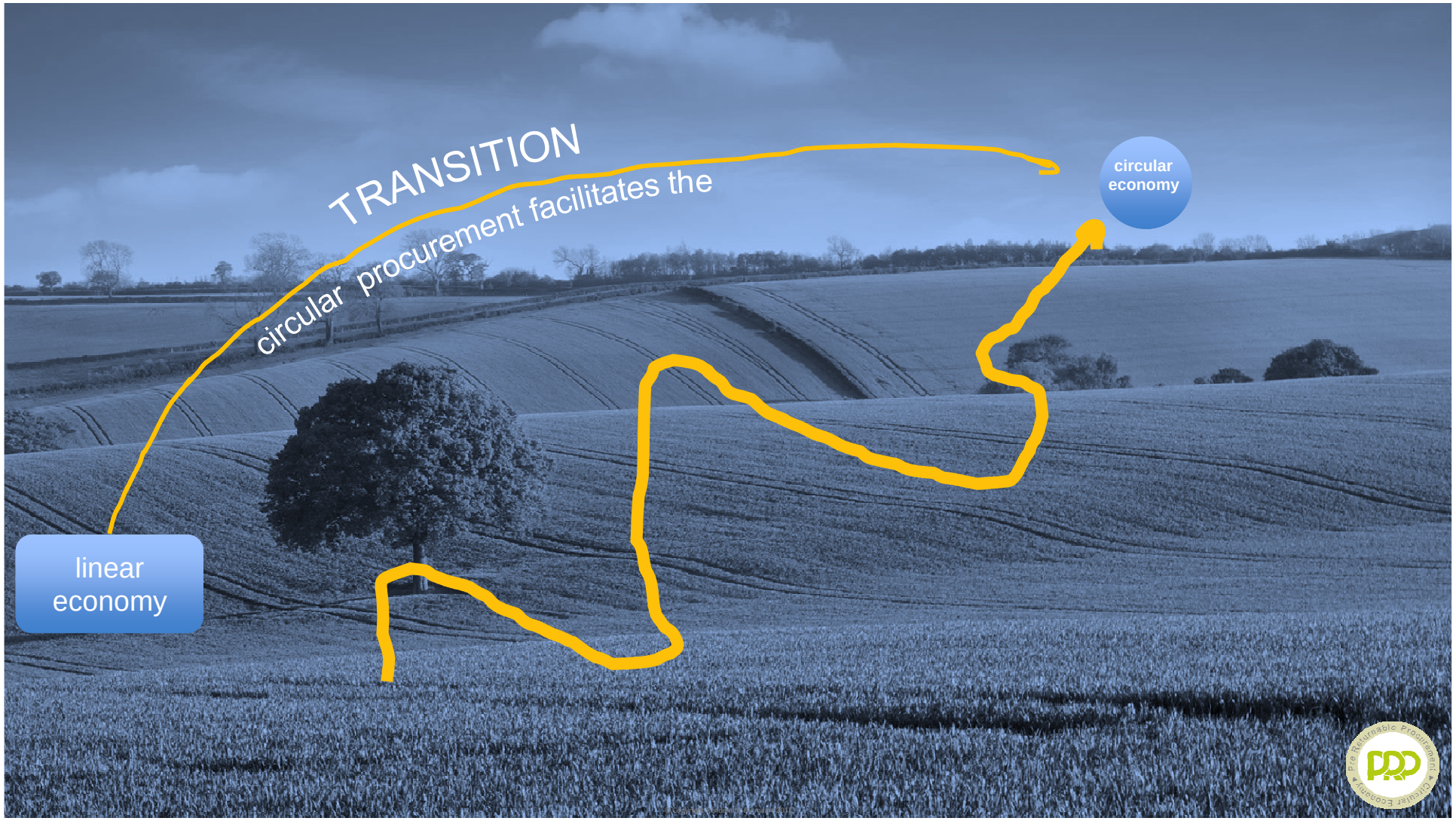
TRANSITION
circular procurement facilitates the
circular economy
linear economy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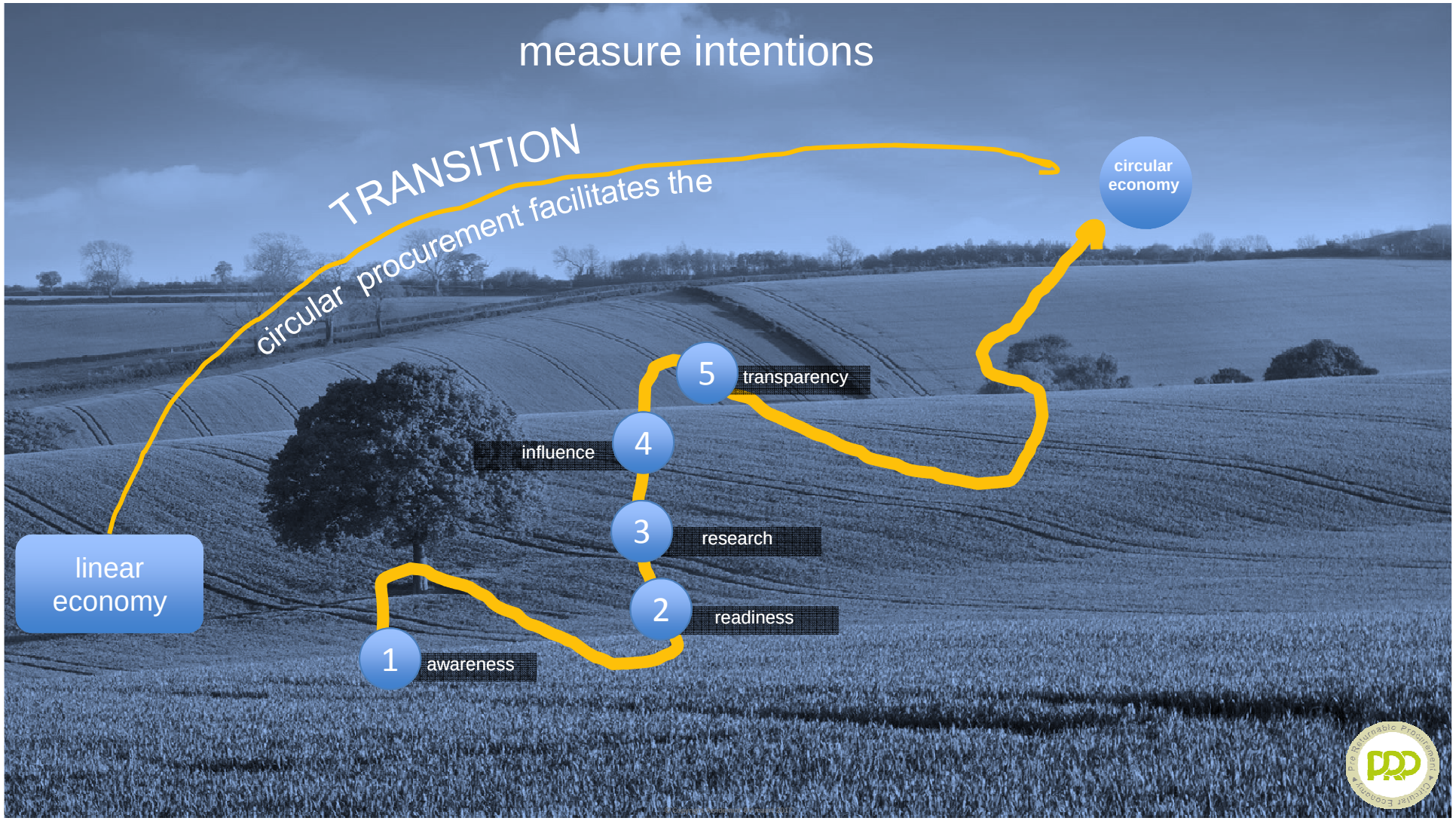
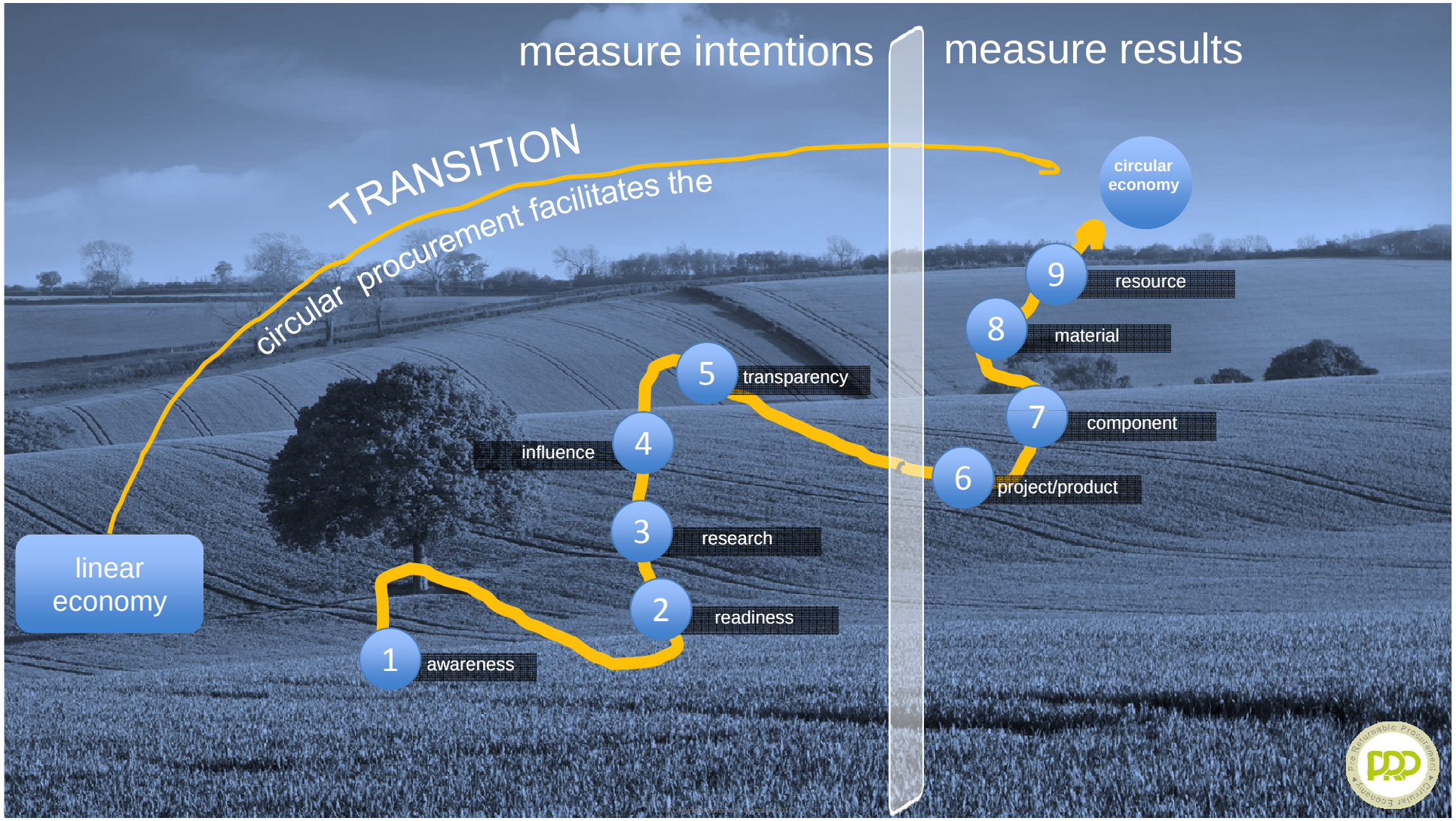
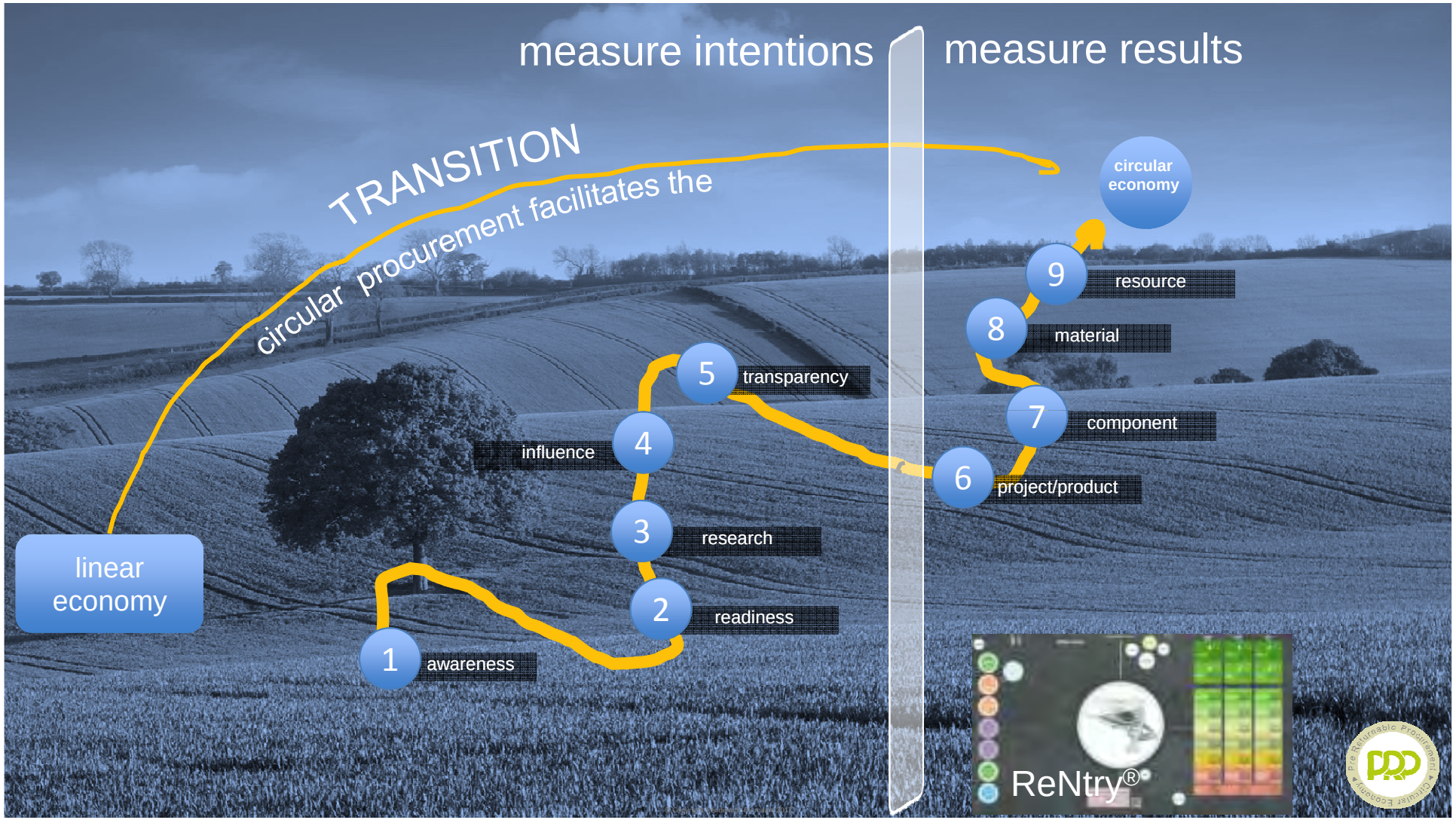

measure intentions
TRANSITION
circular procurement facilitates the
circular economy
linear economy
5 transparency
4 influence
3 research
2 readiness
1 awareness


measure intentions
measure results
TRANSITION
circular procurement facilitates the
circular economy
linear economy
1 awareness
2 readiness
3 research
4 influence
5 transparency
6 project/product
7 component
8 material
9 resource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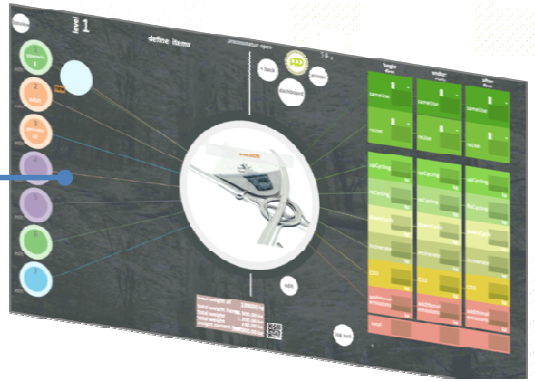
5 transparency
6 project/product
7 component
8 material
9 resource
ReNtry®

Measure and compare circularity.

LEVEL 1

PRODUCT/PROJECT



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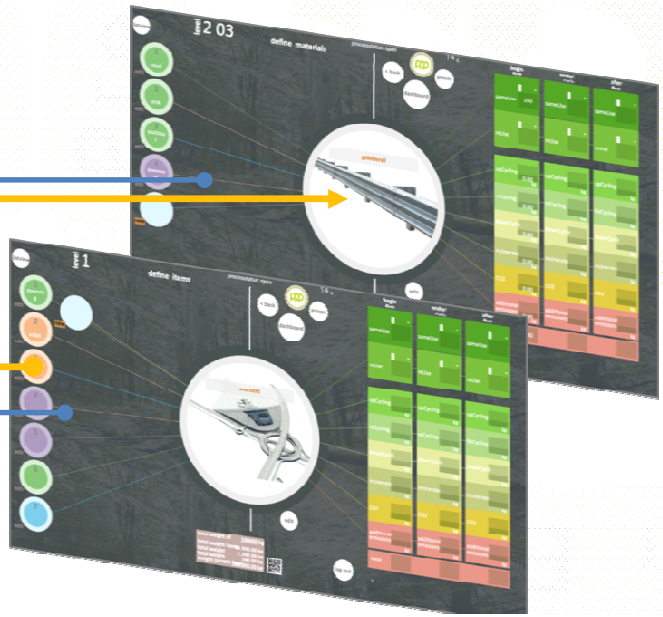
Measure and compare circularity.

LEVEL 2

ITEMS

LEVEL 1

PRODUCT/PROJECT



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Measure and compare circularity.

LEVEL 3

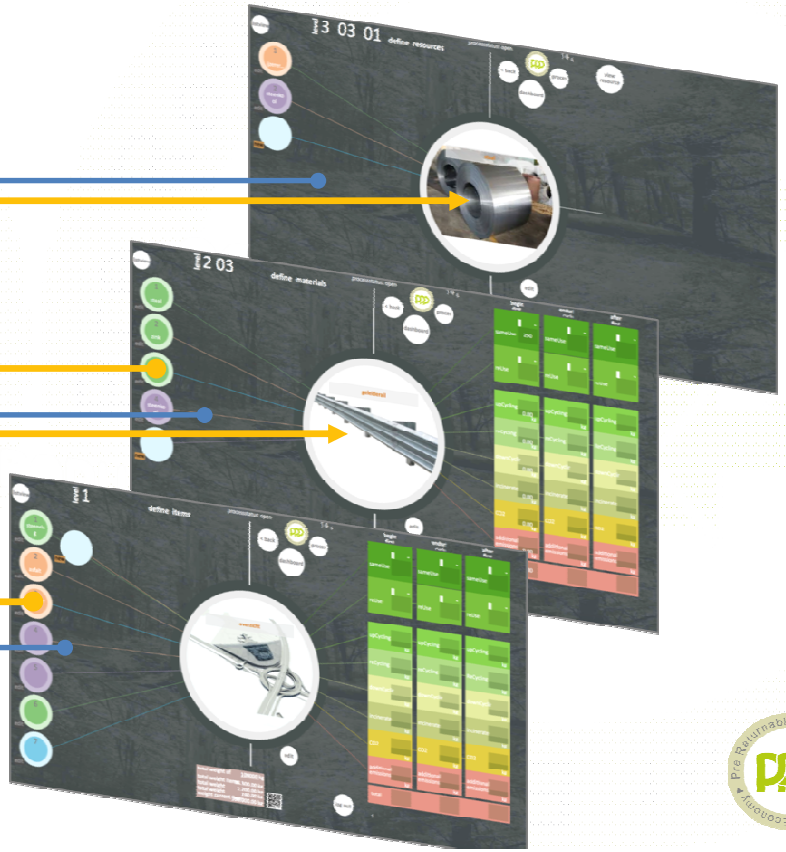
MATERIALS

LEVEL 2

ITEMS

LEVEL 1

PRODUCT/PROJECT



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Measure and compare circularity.

LEVEL 4

RESOURCES

LEVEL 3

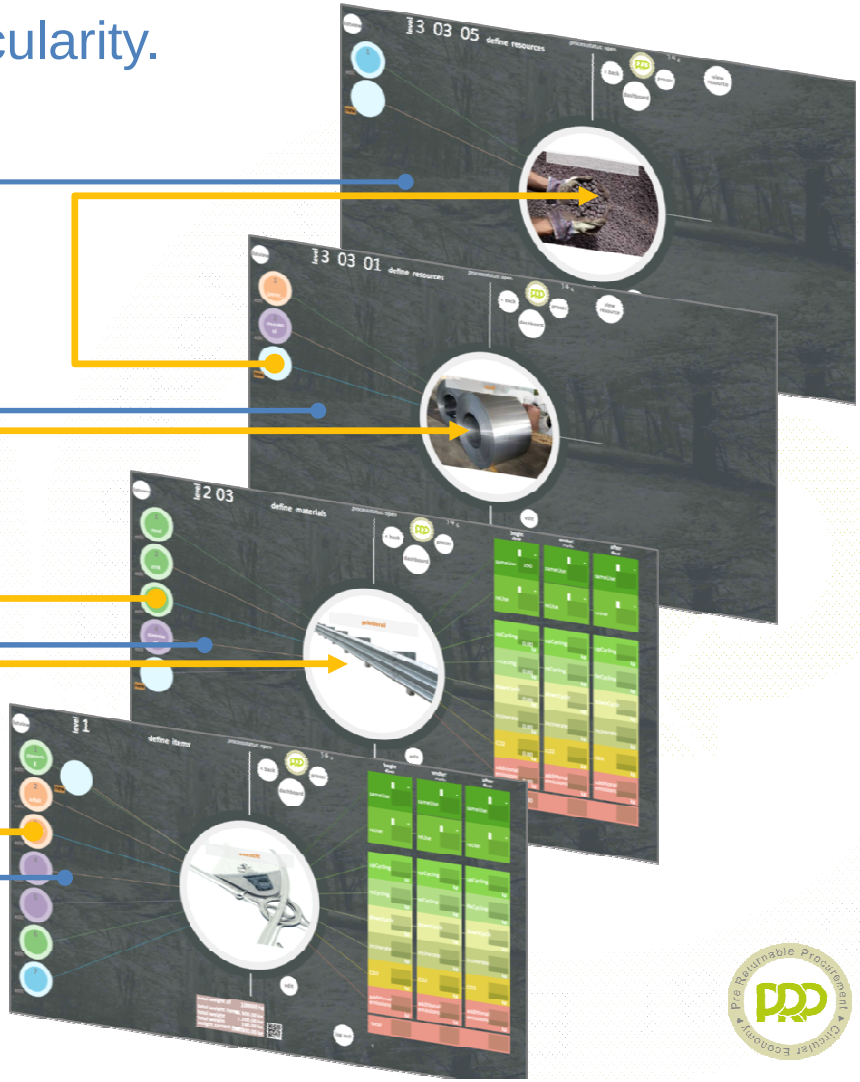
MATERIALS

LEVEL 2

ITEMS

LEVEL 1

PRODUCT/PROJECT



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RFP

What is a requirement?
What is a wish?

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directive

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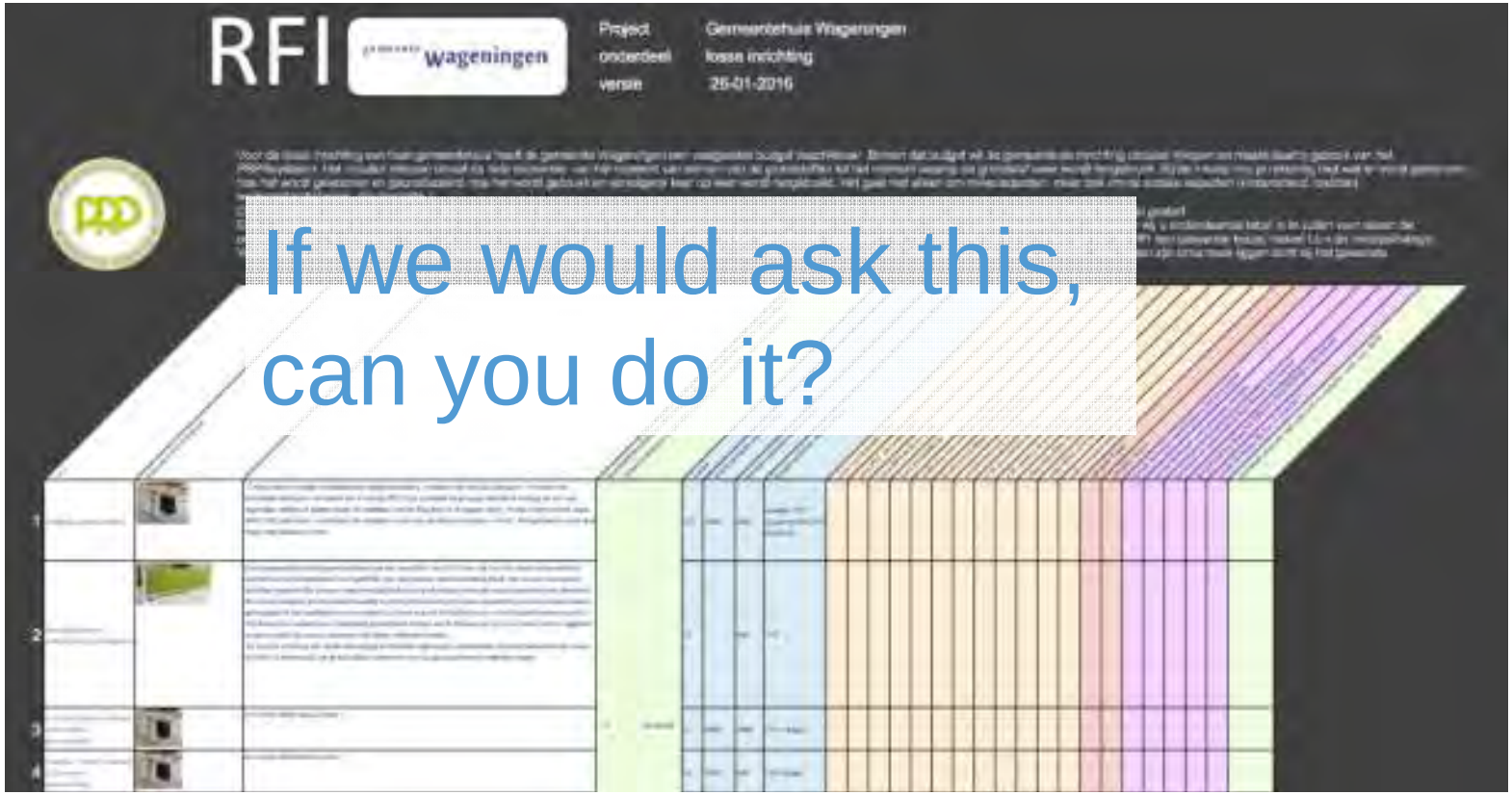
RFP



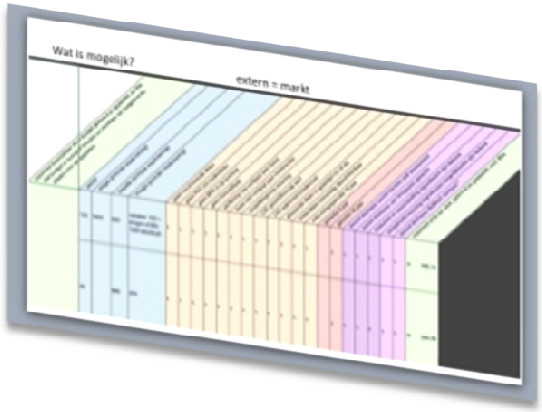
If we would ask this, can you do it?

RFP

What do we desire?

PRP®
directive

What is possible?



RFP

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RFP

circular terminology and definition

DEFINITION

A circular economy is an economy that globally and regarding all aspects

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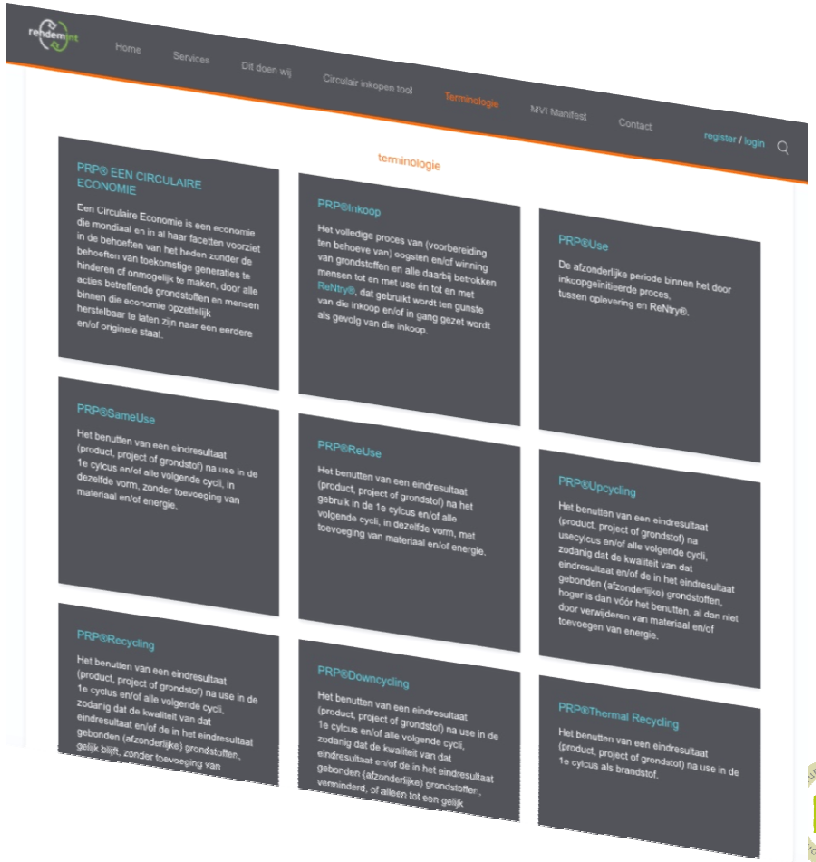

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CRITERIA

6. Gunningscriteria

6.1 Overzicht Gunningscriteria en weging

Onderstaande tabel geeft een overzicht van de Gunningscriteria en de bijbehorende wegingsfactoren. Inschrijver dient de beantwoording van de gunningscriteria K-C2, K-C3 en K-C4 separaat in te dienen bij de offerteaanvraag.

Price is no criterion

Categorie	Criteria	Weging criteria
Kwaliteit	*K-C1: Aangeboden items*	*50 %*
	K-C2: Garantievoorwaarden	*10 %*
	K-C3: Dagelijks gebruik van de Raadzaaltafels	*15 %*
	K-C4: Schaamschot	*15 %*
Commercieel	*C-C1: Prijs (Restitutiewaarde)*	*10 %*
	Totaal	***100 %***

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RFP

C-E3: Facturatiemomenten

Facturering geschiedt digitaal na oplevering van alle geleverde items. Er worden derhalve geen facturen voor deelleveringen verzonden. Indien er sprake is van een combinatie van aanbiedingen wordt slechts door een partij gefactureerd, zij zullen de prijs van de afferte ingediend heeft.

Activiteit	Data
Na oplevering en goedkeuring van de PRP® stukken	30%
[illegible] rrect aanleveren, [illegible] ren van alle [illegible]	70%

If a circular promise is not delivered, 30% of total som is not paid

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C-E3: PRP® Designatie

Leverancier levert een resultaat op waarbij elk item afzonderlijk, voorzien van een fysieke designatie. Deze code aangeleverd door Opdrachtgever aangegeven in de Opdrachtnemer. Deze code is aangegeven in de 'LI000' nummers. Deze code wordt toegepast op tekeningen, en/of aan de gevel van de [illegible] De positie van de fysieke designatie code is zodanig deze tijdens normaal gebruik niet zichtbaar is maar gelijktijdig de gebruiksvriendelijkheid van de zorgfunctie moeten verwijderen. De designatie codes zijn een basis voor BeNtw.

Each item is designated with a QR-code connected to the system.

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C-E5: PRP® Borging

C-E5A: Migratie verplichting Opdrachtnemer

Indien Opdrachtnemer zou wijzigen van juridisch eigenaar, om welke reden dan ook, is Opdrachtnemer verplicht alle PRP® borgingen en de daarbij behorende verplichtingen te laten migreren naar de nieuwe eigenaar, zodanig dat geen enig bezwaar van de betrokken partijen wordt ondervonden en genomen en gehonoreerd door de nieuwe eigenaar met dezelfde migratieverplichting voor toekomstige wijzigingen.

C-E5B:

Indien Opdrachtgever zou wijzigen van juridisch eigenaar, om welke reden dan ook, is Opdrachtgever verplicht alle PRP® borgingen en de daarbij behorende verplichtingen te laten migreren naar de nieuwe eigenaar, zodanig dat geen enig bezwaar van de betrokken partijen wordt ondervonden en genomen en gehonoreerd door de nieuwe eigenaar die op haar beurt dezelfde migratieverplichting heeft voor toekomstige wijzigingen.

The preservation of embedded resources is secured by a ‘migrating’ contract.

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C-E7 PRP® Garantie

Voor alle items is de garantietermijn 10 jaar op het (samen)gestelde resultaat.

De garantievoorwaarden mogen niet strijdig zijn met de PRP® bepalingen en mogen niet zodanig zijn dat zij beperkend zijn voor het beoogde en bedoelde gebruik en/of strijdig met de schoonmaakvoorschriften. De garantietermijn met voorwaarden en/of beperkingen wordt bepaald bij de oplevering.

C-E8: PRP® Schoonmaak

Voor alle items dient een schoonmaakprogramma aangegeven te worden inclusief de daarvoor noodzakelijk minimumeisen aan gebruiks- en verbruiksmiddelen. De schoonmaakvoorschriften mogen niet strijdig zijn met de PRP® bepalingen en mogen niet zodanig zijn dat zij beperkend zijn voor het beoogde en bedoelde gebruik en/of strijdig met de garantievoorwaarden en/of schoonmaakvoorschriften.

De schoonmaakvoorschriften, met gebruiks- en verbruiksmiddelen zijn een integraal onderdeel van de Overeenkomst en maken deel uit van de oplevering.

C-E9: Onderhoud

Voor alle items dient een onderhoudsprogramma aangegeven te worden.

De onderhoudsvoorschriften mogen niet strijdig zijn met de PRP® bepalingen en mogen niet zodanig zijn dat zij beperkend zijn voor het beoogde en bedoelde gebruik en/of strijdig met de garantievoorwaarden en/of schoonmaakvoorschriften. De onderhoudsvoorschriften zijn een integraal onderdeel van de Overeenkomst en maken deel uit van de oplevering.

Maintenance and cleaning are specified to ensure maximum circular preservation of products and materials.

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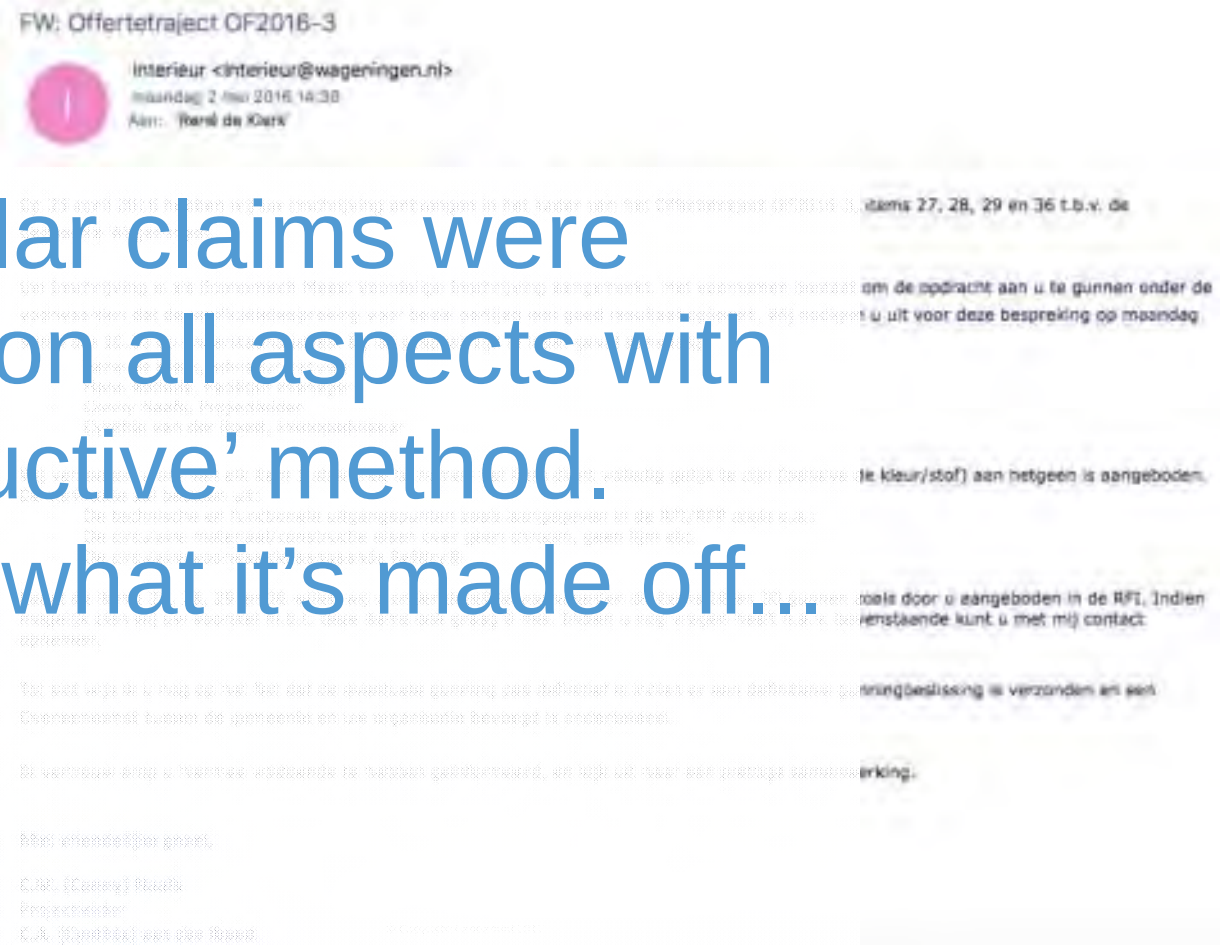
VERIFICATION


FW: Offertetraject OF2016-3

Interieur <interieur@wageningen.nl>

maandag 2 mei 2016 14:38

Aan: René de Klerk

All circular claims were verified on all aspects with a ‘destructive’ method.

…show what it’s made off…

results

HEALTH

ZERO PVC

ZERO CHROMIUM 6

ZERO FORMALDEHYDE (no chipboard, mdf, etc.)

ZERO VOC

ZERO SEALANT

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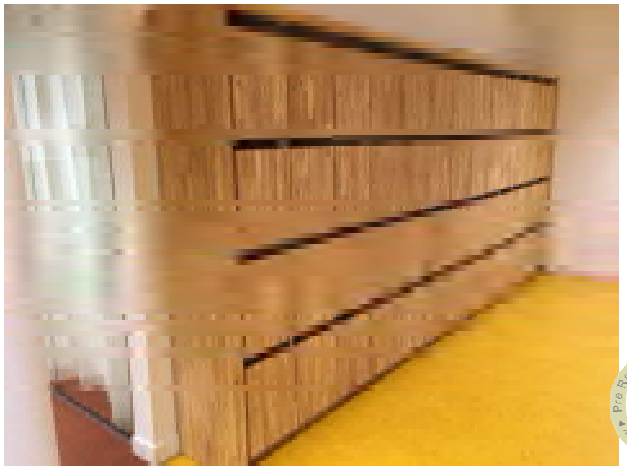
Results

Countertop made of downcylcled glass and marble.
Fixtures made from solid rubber wood.
Finish in natural oil.



results

REUTILIZATION

Upholstery without glue or staples.

© Copyright Rendemint 2017

results

REUTILIZATION

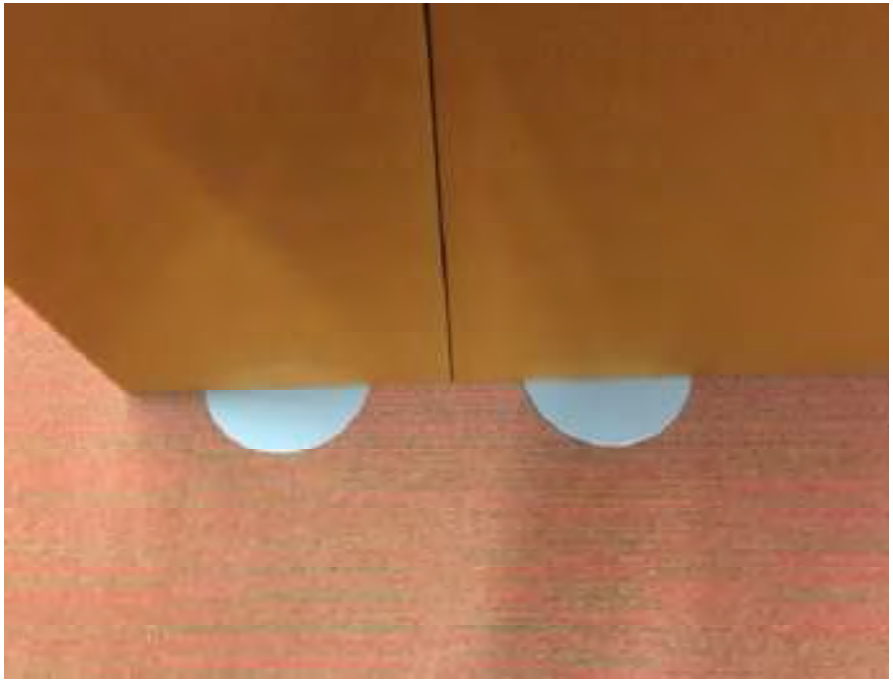
Carpet tiles reused from another office.

© Copyright Rendemint 2017

results

REUTILIZATION

Movable partitions
Completely redeveloped during procurement process.



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The European Commission's science and knowledge service

Joint Research Centre

What's new in the EU GPP criteria for furniture

ICLEI Webinar – GPP of Furniture, including refurbishment and end-of-life services
29 Nov 2017

Shane Donatello

European Commission

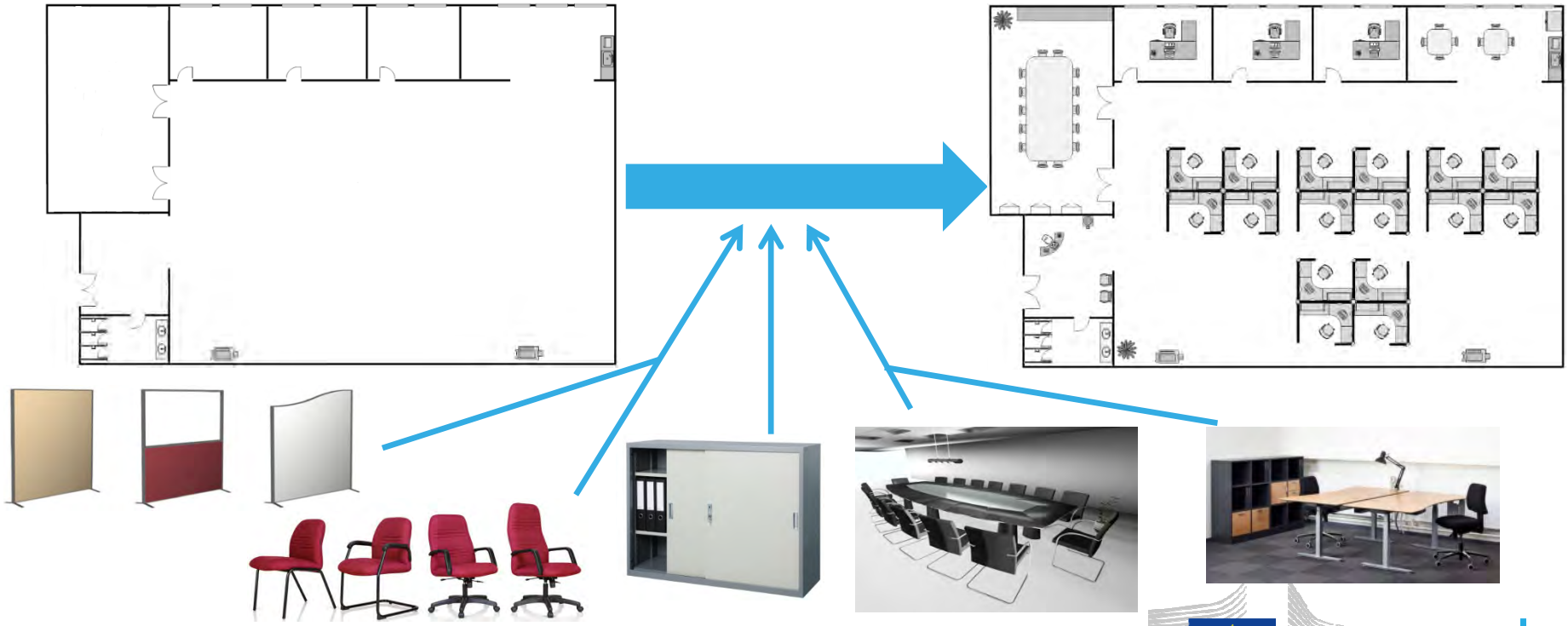
Contents

- Some typical scenarios for furniture procurement.
- The 3 pronged approach in the EU GPP criteria.
- Some specific aspects of the criteria:
  - **Formaldehyde emissions from wood-based panels.**
  - **SVHC reporting**
  - **Low emission padding materials**
  - **Low chemical residue upholstery covers**
  - **Warranty and spare parts**

Typical scenario-1

No furniture at all: need to source furniture items.

Simplest to buy new furniture → to match very specific plans.



Images courtesy of photostock, David Castillo Dominici, John Casawa, Arvind Balaraman, Keerati, Renjith Krishnan and stockimages at FreeDigitalPhotos.net and Duba B8 or sourced from:
http://www.featherlitefurniture.com/products/office-chairs/bodyline-office-chairs
http://www.aussie1stofficefurniture.com.au/office-accessories/screens-partitions-room-dividers/

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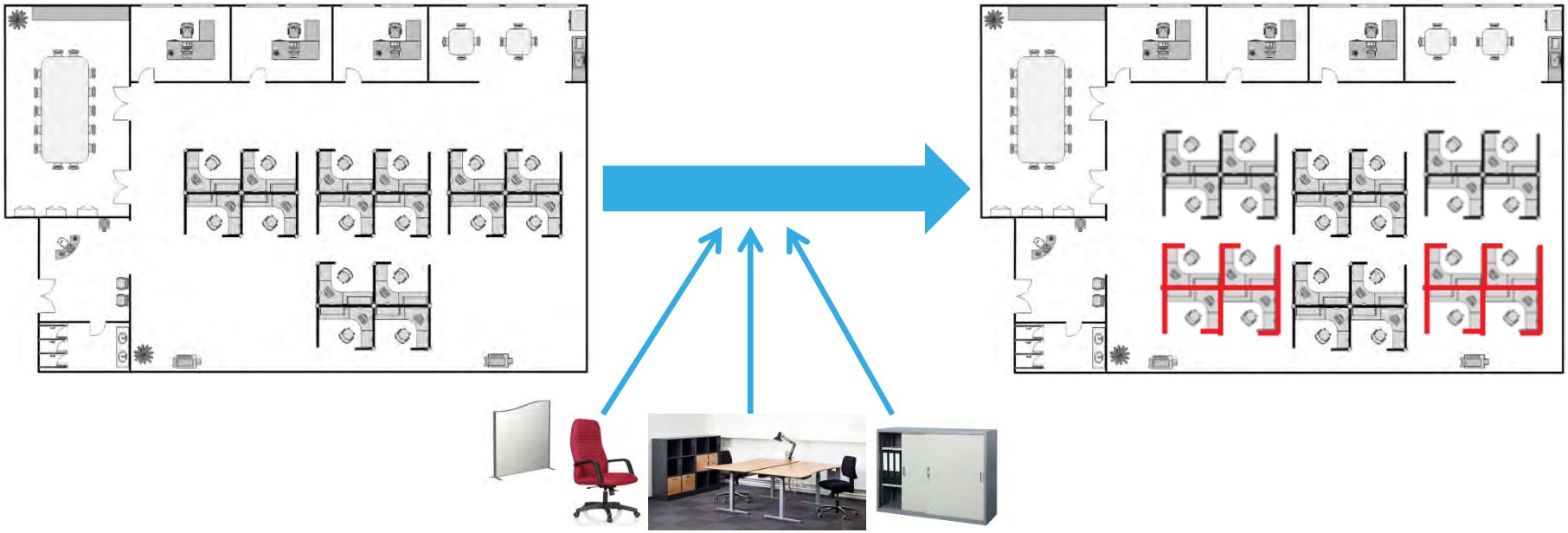
Typical scenario-2

Expanded office/workforce: need to source extra furniture items.

Simplest to buy new furniture → same quality and aesthetics as existing furniture.



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Typical scenario-3

"Steady state" office: old furniture no longer fit for purpose*.

- *May be subjective!
  - **E.g. perhaps budget says furniture to be renewed every X years.**
  - **E.g. a redesign is desired to "freshen up" the office etc. etc.**
- Although it may be that the furniture is genuinely not as good at doing its job
  - **E.g. Upholstery padding is no longer firm.**
  - **E.g. Upholstery covers or table surfaces are worn looking or scratched.**
  - **E.g. Partial mechanical failures in hinges, wheels, runners, gas-lifts etc.**

Repair, refurbishment and remodelling are options!

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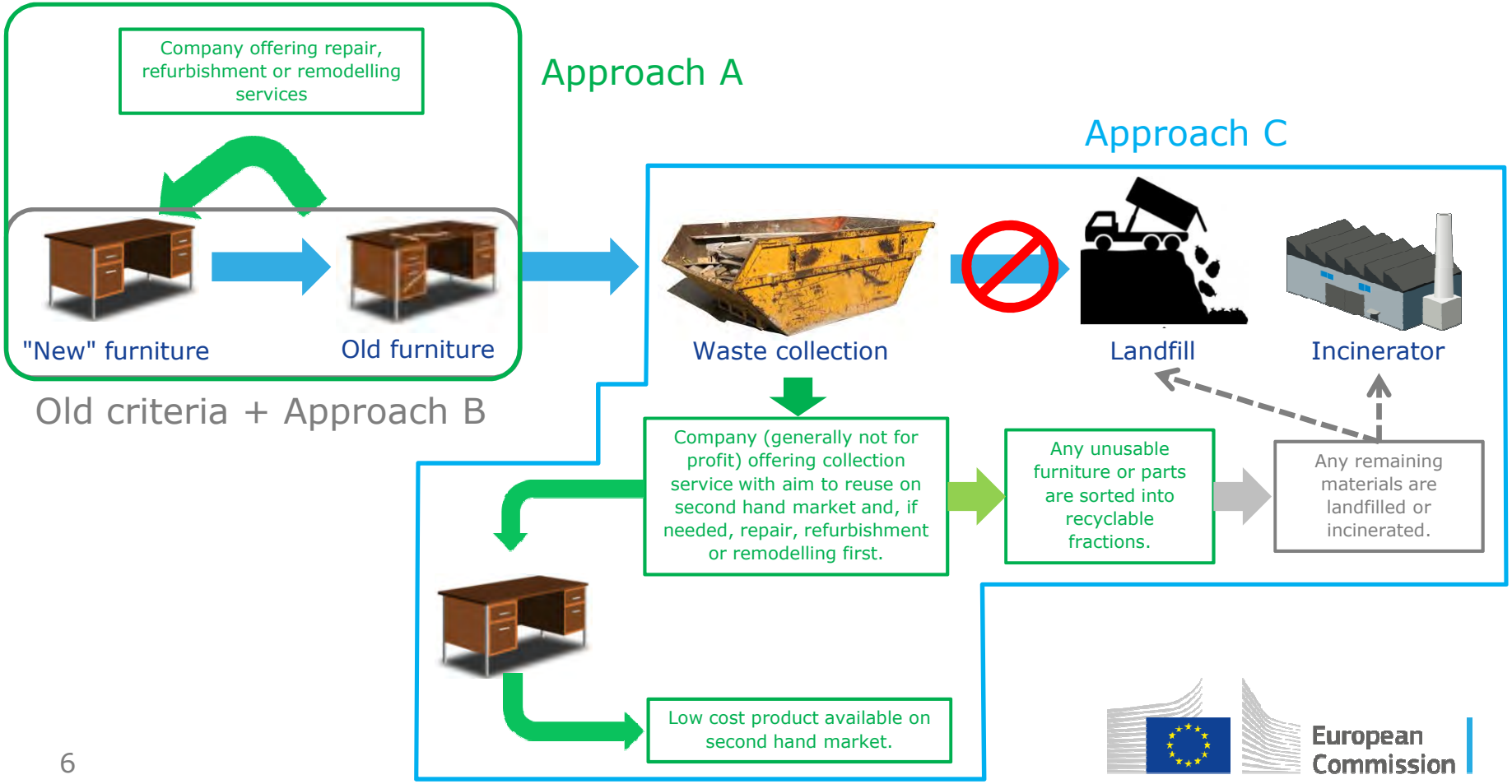
Comparison of old and new GPP criteria



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What about the money?

- In domestic furniture → trend towards cheaper products
  - **Disincentive for cost effectiveness of repair or refurbishment.**
- However, office furniture items are typically high quality products.
  - **Clear financial incentive to extend product lifetime.**
- Approach A → save yourself money (e.g. 25-50%)*
- Approach C → throw your money away in the most socially and environmentally responsible manner!

*https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/341462/Furniture_GBS_impact_assessment_1407.pdf

Some specifics about the new criteria

Formaldehyde emissions from WBP-1

- Widely used chemical.
- But a Category 1B carcinogen (since 2014).
- Used to bind wood particles in wood-based panels.
- Small amounts released upon contact with humidity.
- Human exposure above 0.1ppm a concern.
- In 1985, E1 standard introduced → <0.1ppm in chamber test
  - **Results can be influenced by choice of resin.**
  - **i.e. UF > MUF > MF > PF > isocyanates**
- Data could ideally be provided by panel manufacturer (i.e. no additional costs to furniture manufacturer).

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Formaldehyde emissions from WBP-2

	Technical specification	Award criterion
Core	< 0.1ppm (E1)	<0.065ppm (65% E1)
Comp.	< 0.065ppm (65% E1)	<0.05ppm (50% E1)

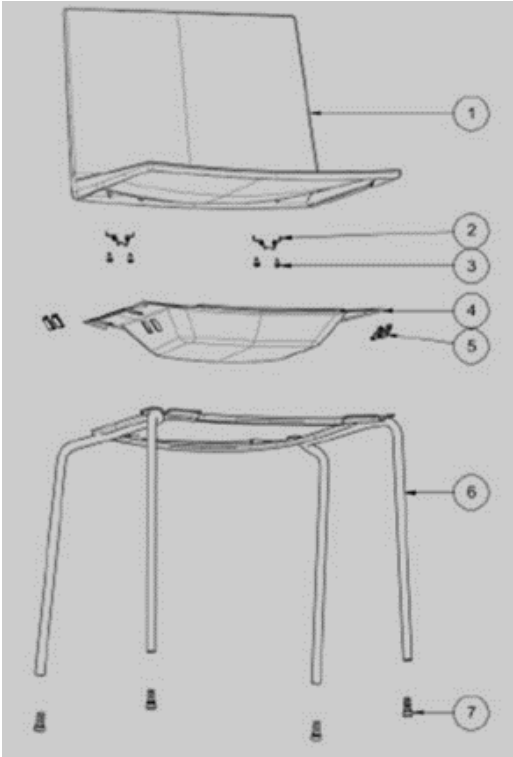
- Recommend to always include award criterion for formaldehyde → encourage the market.
- In some MSs, E1 is mandatory for all wood-based panels already → so the comp. level should apply there.
- Testing according to EN 717-1 is preferred.
- But recognition of similar schemes in Japan and US.
- EU Ecolabel guarantees <65% E1 (if MDF) or <50% E1 (all others).

EU Ecolabel
www.ecolabel.eu

European Commission

Reporting on presence of SVHCs

- SVHCs = Substances of Very High Concern
- Article 57 and 59 of REACH
- Basically undesirable substances that are likely to be banned in the future (but with no current restrictions).
- If present >0.1% → consumers have a right to know (Article 33).
- 0.1% limit applies to each "article" in a furniture product.
- Important to raise awareness of this issue in the market.
- Core level is a basic legal requirement (not widely known).
- Comp. level is guaranteed by EU Ecolabel.



EU Ecolabel
www.ecolabel.eu

European Commission

Low emission padding materials

- Criteria set for PU foam (>80% of the market)
- Criteria set for latex foam (most of the remaining market share)
- Comprehensive level only.
- Chamber test similar to formaldehyde from wood-based panels.
- Compliance is guaranteed by EU Ecolabel.
- Compliance also guaranteed by industry eco-standards.

EU Ecolabel
www.ecolabel.eu

euroLATEX ECO STANDARD

The PU-Foam SHE-Standard
CertiPUR™
Europur AISBL – www.europur.com

European Commission

Low chemical residue upholstery covers

- Direct skin contact with users.
- Want to know what substances leach off in contact with sweat.
- Limits set for restricted dyes, heavy metals and free formaldehyde
- Compliance is guaranteed by EU Ecolabel.
- Compliance also guaranteed by OEKO-TEX 100.

EU Ecolabel
www.ecolabel.eu

CONFIDENCE IN TEXTILES
Tested for harmful substances
according to Oeko-Tex Standard 100
Test-No SHBO 039381 TESTEX Zurich

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Warranty and spare parts

Furniture products can be rendered unfit for purpose if just one small part fails → need for spare part availability.

- Warranty → legal minimum 2yrs (1999/44/EC)
- But for consumer products (relevant to GPP?)
- Core level → 3 years.
- Comp. level → 5 years.
- Minimum 5 years with EU Ecolabel.
- Award criteria for longer warranties.
- Up to +4 years maximum.

Thanks

Any questions?

You can also contact me at shane.donatello@ec.europa.eu

Technical Report and criteria can be found at:
http://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm

European Commission

GIG CYMRU NHS WALES | Iechyd Cyhoeddus Cymru Public Health Wales

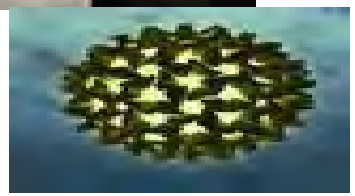
Mainstreaming Circular Economy

29th November 2017

Sally Attwood & Amanda Davies
Public Health Wales NHS Trust

Bumps in the Road

Public Health Wales



- Health & Wellbeing is our business: prevention and protection
- 1700 staff – mixed professions
- 3.3 million people
- large, fragmented estate
- £115m annual budget
- One of 10 NHS bodies

‘Our Space’ Programme

- an accommodation strategy – Phase 1 was ...
- moving from 9 buildings across South Wales to Cardiff city centre
- major office fit out in a new build - 51,000 ft^2
- 550 NHS office workers affected

Selection process

- By January 2015 .... long list of properties
- High levels of staff involvement
- No management specification except for: light, airy, modern, open plan
- Flirting with ideas such as 4 desks per 10 staff

☹☹☹☹☹

Nightmare .....

us

them

Expectation ....

- Open plan, but try to address problems
- Buy around 2,500 new items from the usual suppliers
- Use a furniture framework contract
- NHS Wales has a shared services arrangement for procurement

But wanted to re-use

- Existing office furniture was OK but had been neglected
- Avoid the problem of getting rid of 2,500 items
- Familiar items for staff
- Avoid public and political perception of excess
- Meets Wellbeing of Future Generations Act 2015

Observations on Procurement

- NHS in Wales is LINEAR
- Shared service across all ten health bodies
- Bound by frameworks
- Difficult to articulate what I needed
- Easy to articulate the need
- Pressure to conform

Route to Market

- Issued PIN Notice
- Held a meeting with around 30 suppliers – Dec 2015
- All said they could do it!
- Decided to go to OJEU process
- More supplier engagement
- 10 tenders

OJEU process - Consortium

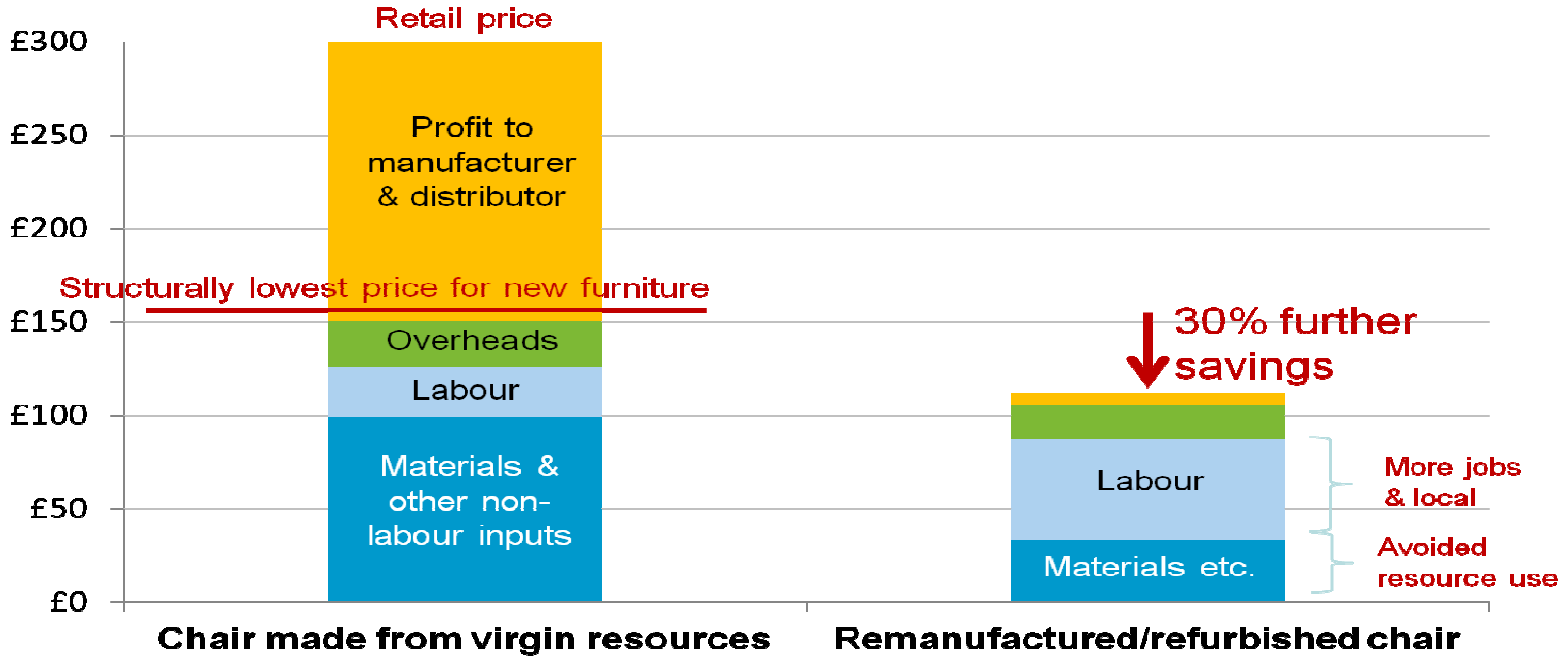
- **Rype Office** – design, office furniture re-manufacture
- **Orangebox** – South Wales business – remanufactured chairs, new collaborative pieces
- **Greenstream** – social enterprise from deprived area – new and recycled carpet tiles

Value realised

- market engagement yielded results
- design was crucial
- inclusion of social enterprise – not tokenistic, but pivotal
- re-manufacture approach changed the narrative for a major organisational change project

- cost savings – against purchase price of new
- 550 task chairs are award winning, top of the range – staff liked them!
- avoided costs of removal and disposal of old furniture
- longer life of higher quality furniture
- enhanced our reputation (maybe)

Remanufacture drives furniture costs lower than structurally possible with new furniture



What else ....

Some numbers ...

- 1,143 items re-used
- 1,270 re-manufactured
- 670m^2 re-used carpet tiles
- 2,435 employed hours for 8 people with barriers to work
- 8 kitchens supplied by a local business
- deeper understanding PHW of positive impact public bodies can have on local economy

environmental value

- carbon benefits: 134 tonnes CO_2e saved which could fill 800 double deckers
- diverted 41 tonnes of waste to landfill
- biodiversity loss from upstream mining / extraction

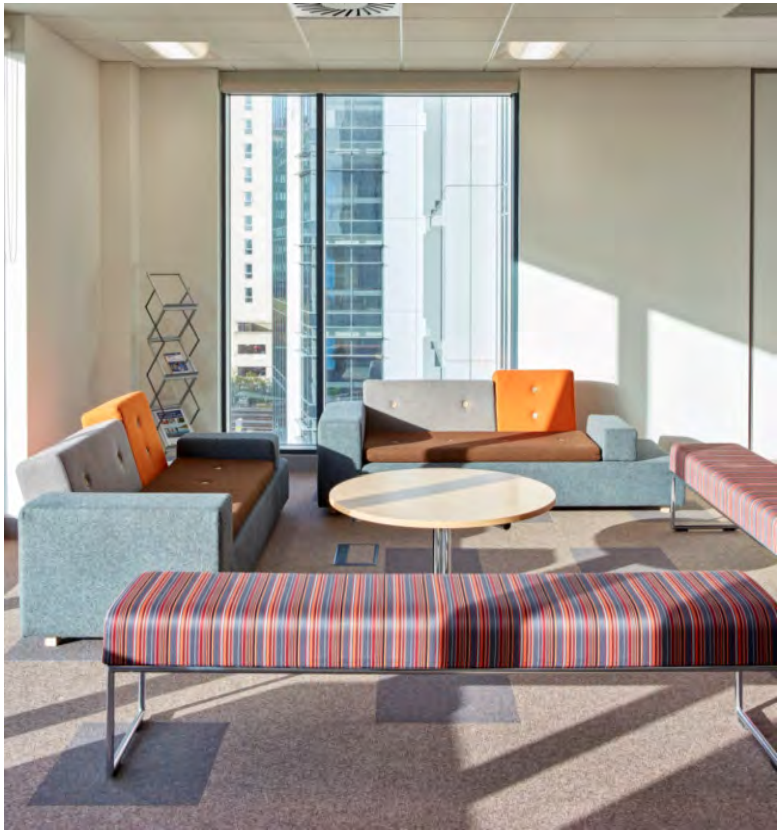
social value of circular economy

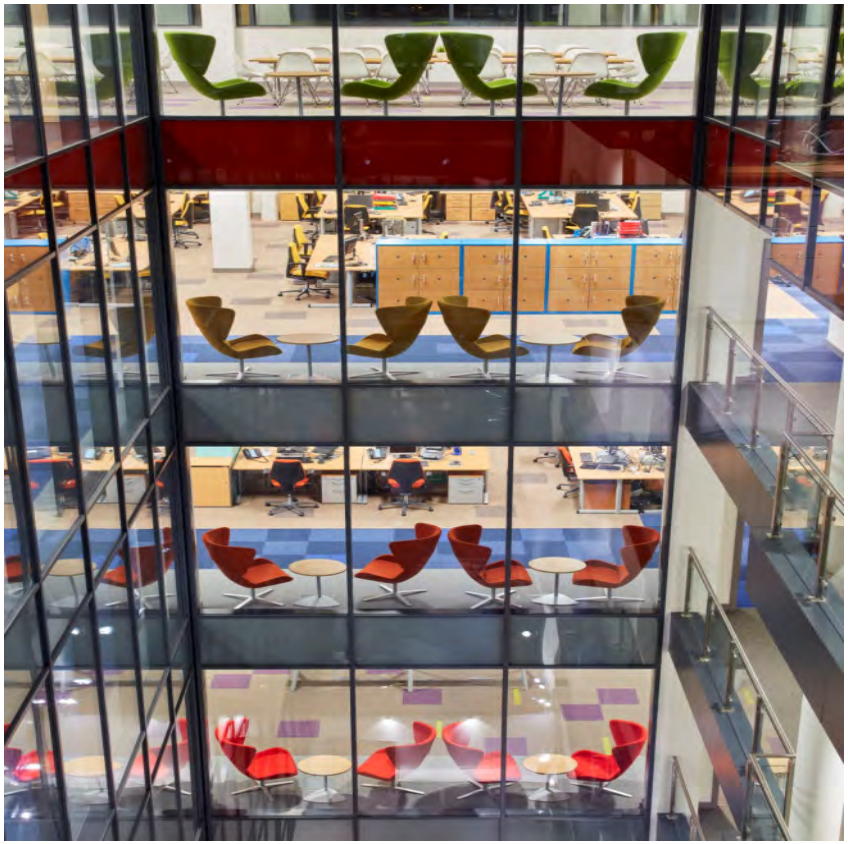
- employment & training has led to real full time jobs for three people
- Greenstream able to continue to provide support to disadvantaged households
- raised the profile of social enterprise as a credible delivery option

So what does it look like?

Fabulous Workplace ...

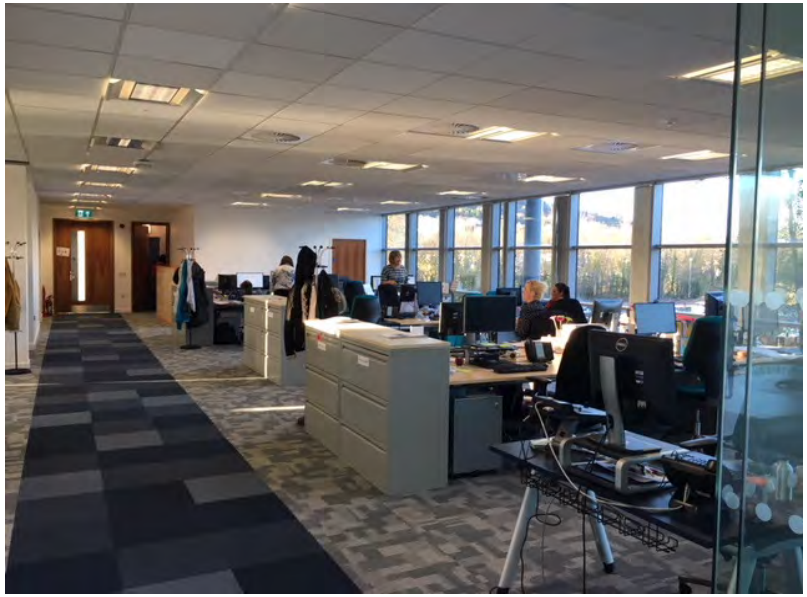
GIG CYMRU NHS WALES | Iechyd Cyhoeddus Cymru Public Health Wales

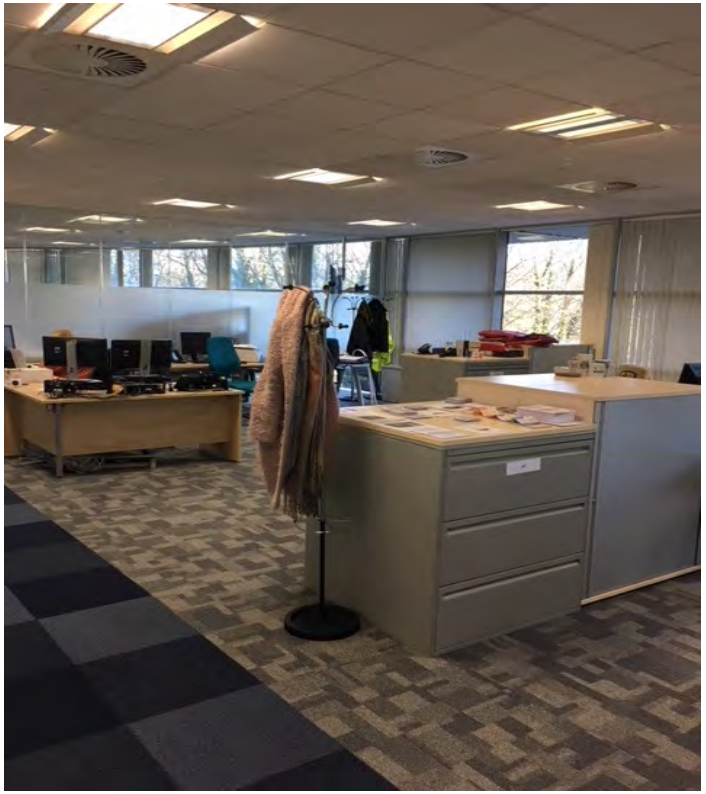




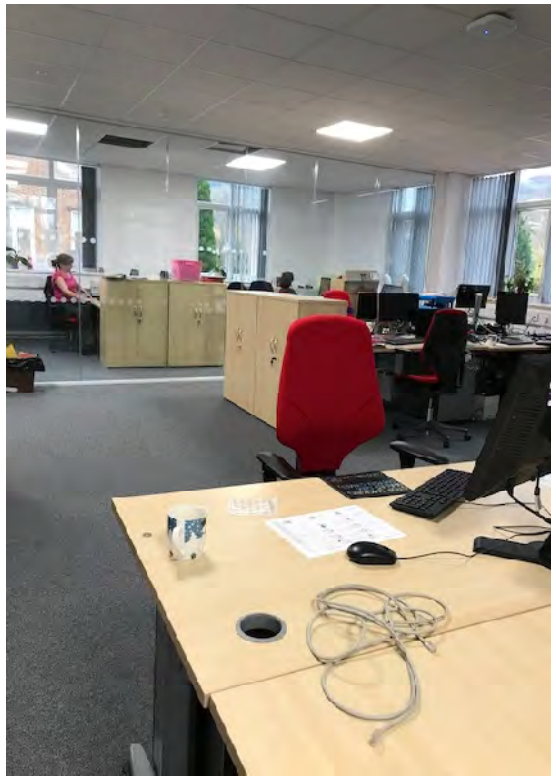
GIG CYMRU NHS WALES | Iechyd Cyhoeddus Cymru | Public Health Wales

It was not a ‘one off’ we’ve continued the project in our Swansea & Newport office’s too!





Newport Office



Bumps in the Road ...

- NHS Wales procurement voodoo
- Staff negativity
- Senior management underwhelmed
- Specification was difficult
- OJEU process
- Warranties!
- Implementation is difficult and different
- Suppliers convinced they could meet the specification

Removing barriers ....

- Ask simple questions – Why?
- You Tube is great!
- Just in time legal advice
- Wellbeing of Future Generations Act 2015
- Talked about the nightmare scenario

More levers ..

- talk to suppliers – they appreciated it
- told staff about the story – reconnected with why they became a public servant
- kept government informed and tried to tick their boxes
- everyone understands office furniture

Reflections

- the 'need' is key
- Managers like me need to get a grip – needs leadership
- Social enterprise is key for us and excites politicians – working with Welsh Government
- Has potential to fit with wider policy and is tangible and measurable
- Awards are good

NHS Sustainability Awards Winners 2017

ADEILADU ARBENIGRWYDD YNG NGHYMRU
CONSTRUCTING EXCELLENCE IN WALES
Gwobrau 2017 Enillydd
Awards 2017 Winner

GREEN APPLE ENVIRONMENT AWARDS
2017 WINNER

PROCURA+ Award Winner 2017
Tender Procedure of the Year
PROCURA+ AWARDS

CYNNAL CYMRU | SUSTAIN WALES

CONSTRUCTION EXCELLENCE AWARDS 2017

FOR HEALTHCARE LEADERS HSJ AWARDS

Local, National and International Recognition in 2017

GIG CYMRU NHS WALES | Iechyd Cyhoeddus Cymru Public Health Wales

Thank You !