THE VIRTUOUS CIRCLE PANEL DISCUSSION

Save Food Pavilion, Messe Düsseldorf GmbH

Düsseldorf, Germany

Objective:

- Deliver Food in a sustainable and safe way to schools in South Africa in dual compartment multilayer pouches.
- Show that multilayers are recyclable and can actually be upcycled into applications valued by the society with the help of compatibilisers, provided the waste is collected and properly treated.

Circular economy – Virtuous Circle South Africa

Distribution of food to schools in dual compartment pouches reduces
CO2 emission by 40%
Water consumption by 80%
And energy consumption by 50%

Quantis

Provides:
Stiffness, protection, printability
OPET//PE//Surlyn® sealant

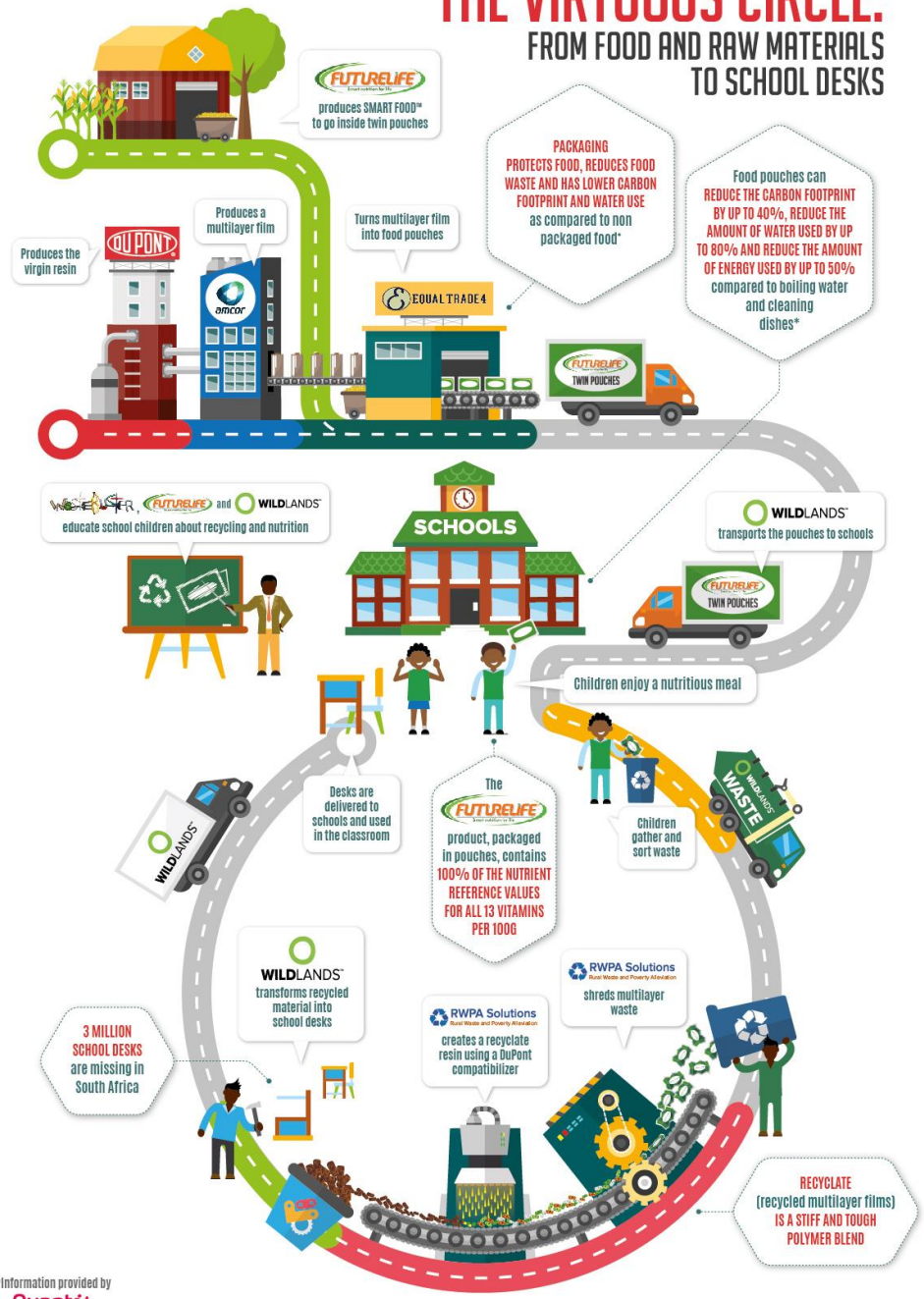
Waste collection and recycling into school benches
(Multilayer Films+Compatibilisers)
and
Building material for houses
Multilayer Films+Compat+Saw Dust)

Education for
Waste prevention
Recycling and
Ressource efficiency

Karlheinz Hausmann, Global Sustainability Technology Leader Packaging, DuPont

THE VIRTUOUS CIRCLE:

FROM FOOD AND RAW MATERIALS TO SCHOOL DESKS



*Information provided by Quantis

RECYCLING FEEDING EDUCATING

THE VIRTUOUS CIRCLE

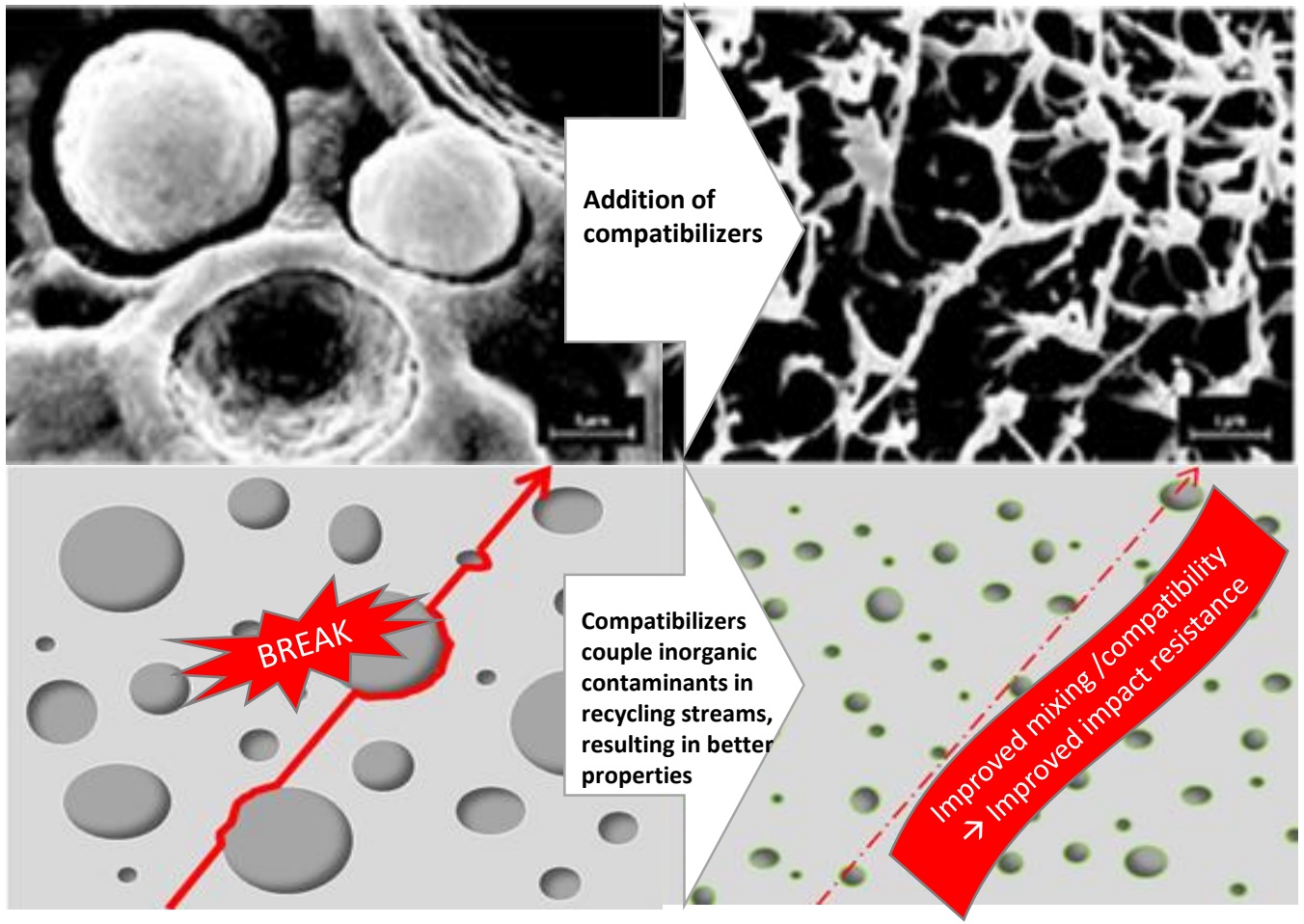
Three pillars

Pillar one: Feeding
- Challenges of food security, packaging, and circular economy
- Address the problem of malnutrition among school children in disadvantaged communities in South Africa.
- Examples of partners who contribute to this section include: Futurelife, Futurelife Foundation, Amcor, Siegwerk (printing inks) and EqualTrade.

Pillar two: Recycling
- Address the challenge of sustainability of plastic packaging by upcycling the plastic packaging waste from the feeding component of the project into school desks.
- Examples of partners who contribute to this section include: RWPA (Rural Waste & Poverty Alleviation), Wildlands and NGR, along with other supporting partners such as Amcor, Woolworths.

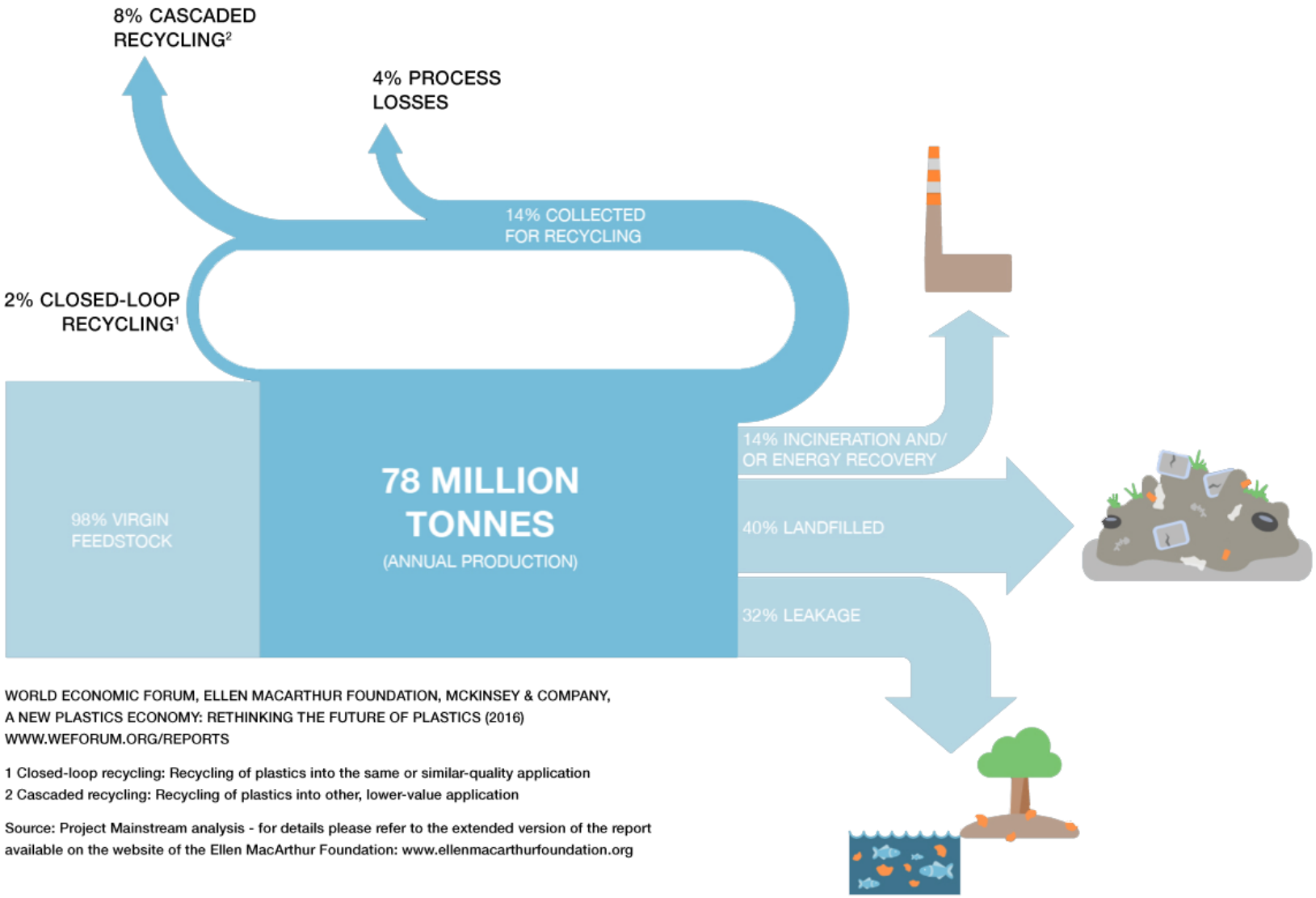
Pillar three: Education
- Present the findings of the educating component of the project.
- Examples of partners who contribute to this section include: Wastebuster and Moonlightings Production.

Enhancing properties of recycling stream through impact modifiers



Karlheinz Hausmann, Global Sustainability Technology Leader Packaging, DuPont

What happens to plastic packaging today?

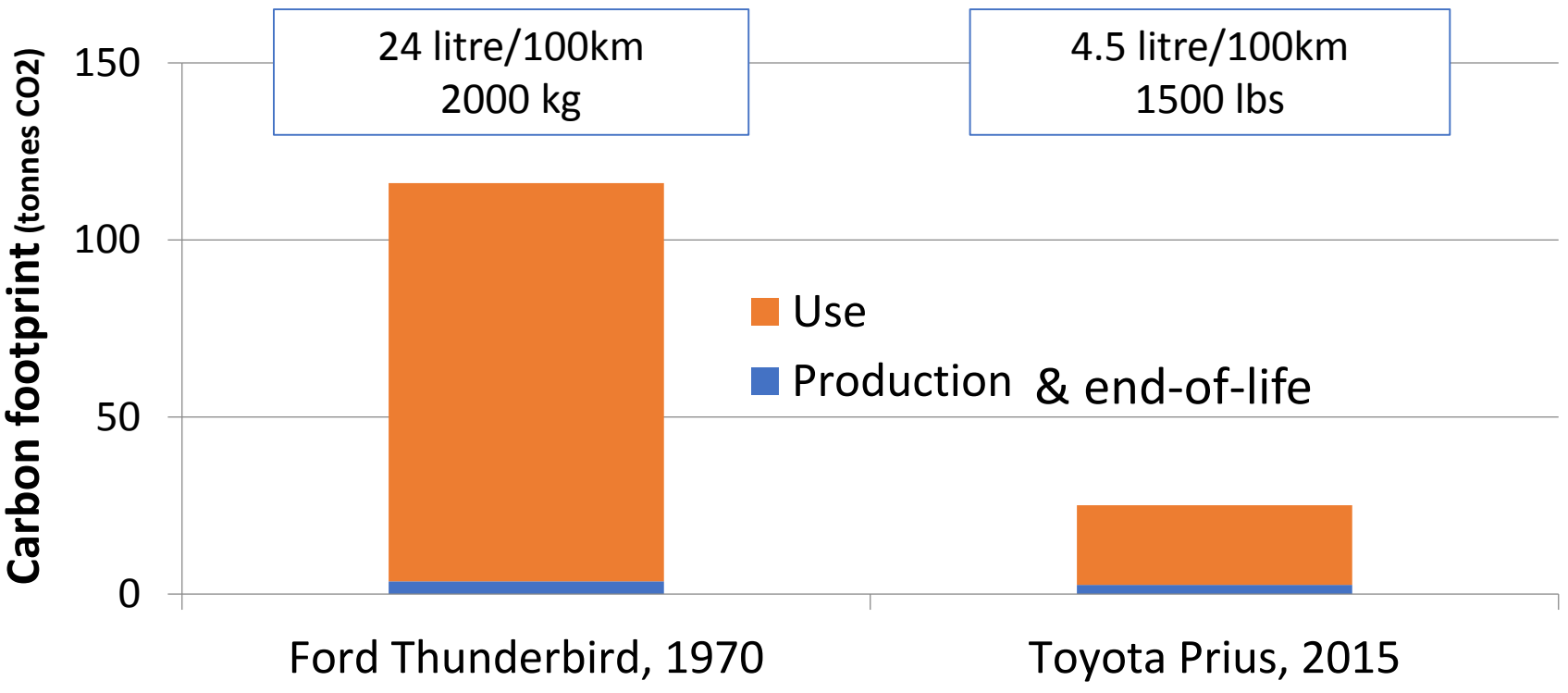


WORLD ECONOMIC FORUM, ELLEN MACARTHUR FOUNDATION, MCKINSEY & COMPANY,
A NEW PLASTICS ECONOMY: RETHINKING THE FUTURE OF PLASTICS (2016)
WWW.WEFORUM.ORG/REPORTS

1 Closed-loop recycling: Recycling of plastics into the same or similar-quality application
2 Cascaded recycling: Recycling of plastics into other, lower-value application

Source: Project Mainstream analysis - for details please refer to the extended version of the report available on the website of the Ellen MacArthur Foundation: www.ellenmacarthurfoundation.org

Going back in time is not an option



THE VIRTUOUS CIRCLE

Effective & efficient packaging solutions

+

End of life recycling & recovery

amcor

Gerald Rebitzer, Director Sustainability, Amcor Flexibles

Challenges for Schools

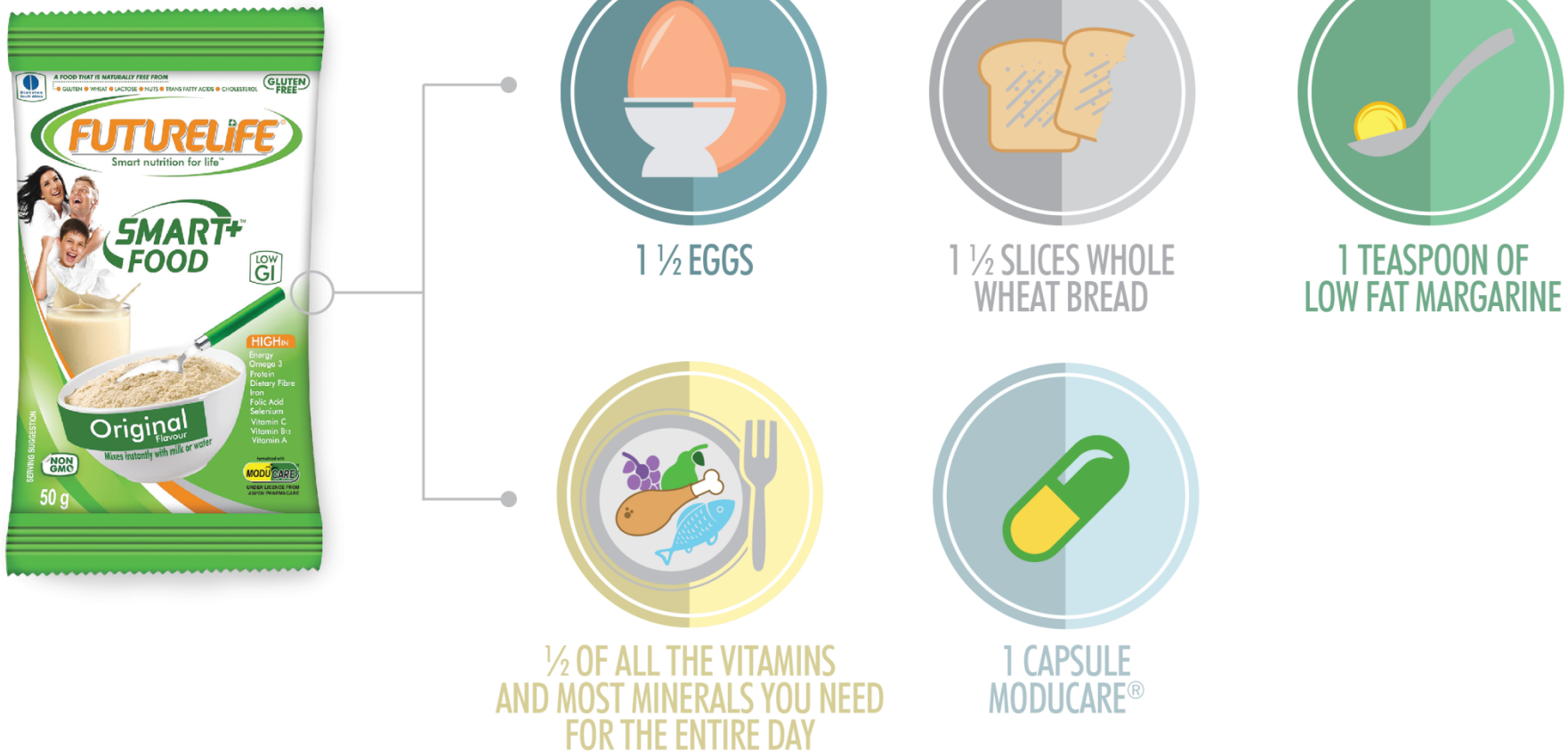
In the event where clean and safe water is not available for instant mixing FUTURELIFE® have a Dual Pouch ready to use meal.

TWO PART POUCH
50g Smart Food
200 ml Purified water

REQUIRE NO OTHER FLUIDS OR MIXING UTENSILS

ON THE GO MEAL PREPARED IN 3 EASY STEPS:
Squeeze water section hard to break centre seal
Shake until powder and water is mixed
Tear open and drink

1 Serving of Smart food™ =



Julika Falconer, CEO, Futurelife Foundation Trust

Waste to dignity

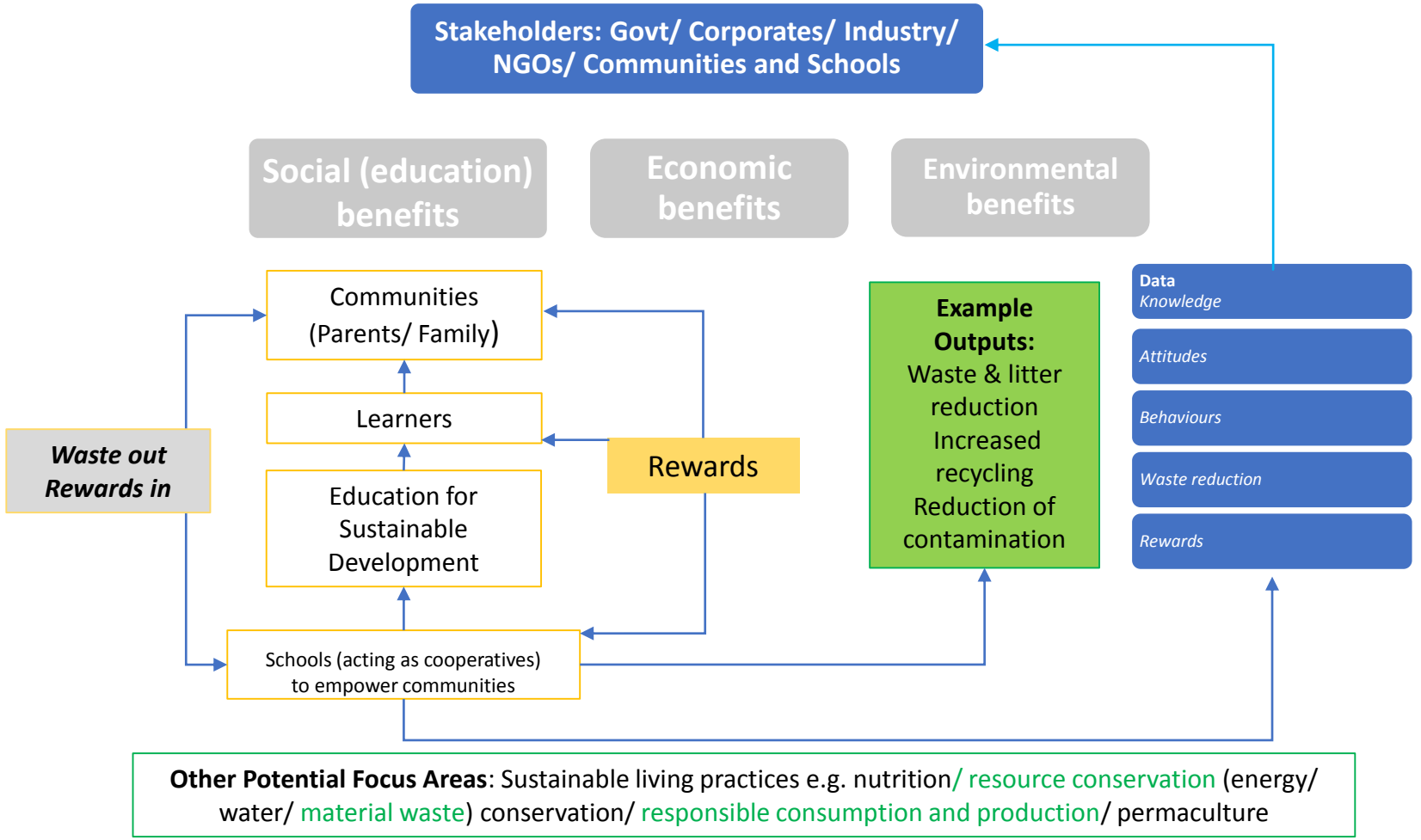
Iqbal Hirji, Chairman and Founder, RWPA Solutions

The solution

RWPA Solutions
Rural Waste and Poverty Alleviation

Iqbal Hirji, Chairman and Founder, RWPA Solutions

Education for Sustainable Development Platform Model



Katy Newnham, Founder and CEO, Wastebuster

Education for Sustainable Development Platform Model

Value Generated

1. Social benefits
- Improved knowledge
- Changed attitudes and behaviours

2. Economic benefits
- Value generation
- Increased resource provision

3. Environmental benefits
- Waste reduction
- Increased recycling

Katy Newnham, Founder and CEO, Wastebuster

Panel discussion moderated by:

THE VIRTUOUS CIRCLE

PlasticsEurope

Patricia Vangheluwe, Director Consumer and Environmental Affairs, PlasticsEurope

Prepare your questions for:

amcor — Gerald Rebitzer, Director Sustainability, Amcor Flexibles

FUTURELIFE — Julika Falconer, CEO, Futurelife Foundation Trust

RWPA Solutions — Iqbal Hirji, Chairman and Founder, RWPA Solutions

Wastebuster — Katy Newnham, Founder and CEO, Wastebuster

DUPONT — Karlheinz Hausmann, Global Sustainability Technology Leader Packaging, DuPont