

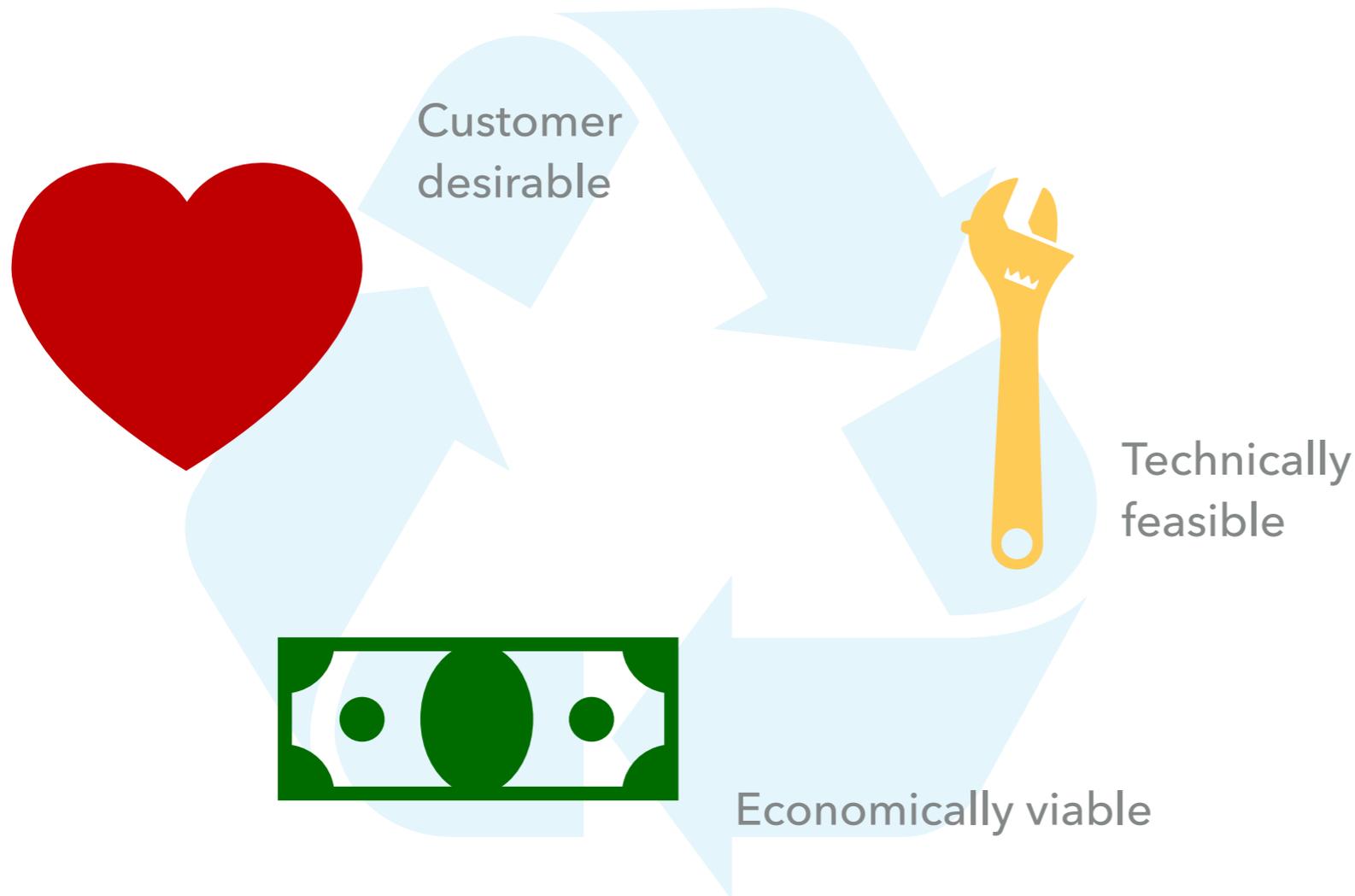
## WHAT IS PLAZROK?

Plazrok is a **unique** lightweight composite concrete aggregate additive that is manufactured from co-mingled waste plastic. Plazrok has been produced in small trial quantities in New Zealand and the USA and the technology is now ready to be commercialised into the concrete industry.

Testing undertaken to-date has demonstrated that concrete produced using Plazrok is a viable alternative to conventional concrete and due to its **lightweight** and **environmental** properties, Plazrok will have **competitive advantages** in the market.



## WHAT IS PLAZROK?



Plazrok is a unique lightweight technical aggregate additive that can be used as an additive or replacement aggregate in concrete.

Plazrok is a composite of waste stream plastics and minerals with a modified surface which allows for good adhesion into the cement matrix.

Plazrok is a technically viable socially acceptable long term solution to the waste plastic disposal problem that can be rolled out globally and profitably with benefits for both the environment and concrete industries.

# WHAT IS PLAZROK?

## Performance characteristics of Plazrok - "helping bring concrete out of the stone age"

### Compressive Strength

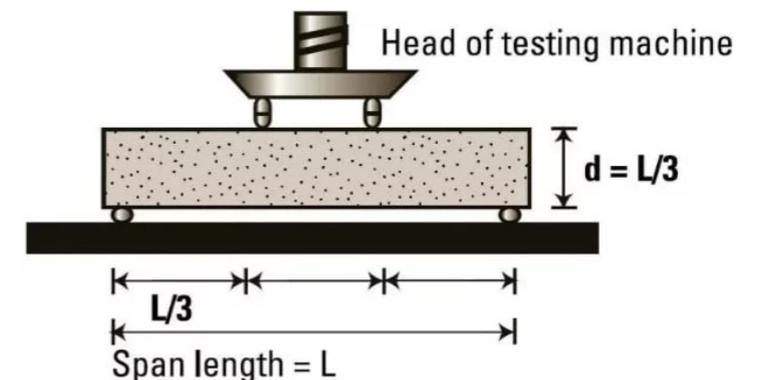
Concrete produced using Plazrok has achieved compressive strengths in excess of M25 (25Mpa) and can be used in a wide variety of mix designs.

### Impact resistance

Concrete produced using Plazrok has a high impact and shatter resistance.

### Flexural / Tensile Strength

Concrete produced using Plazrok has excellent flexural / tensile strength. Plazrok can be used in applications where flexural performances is a key requirement.



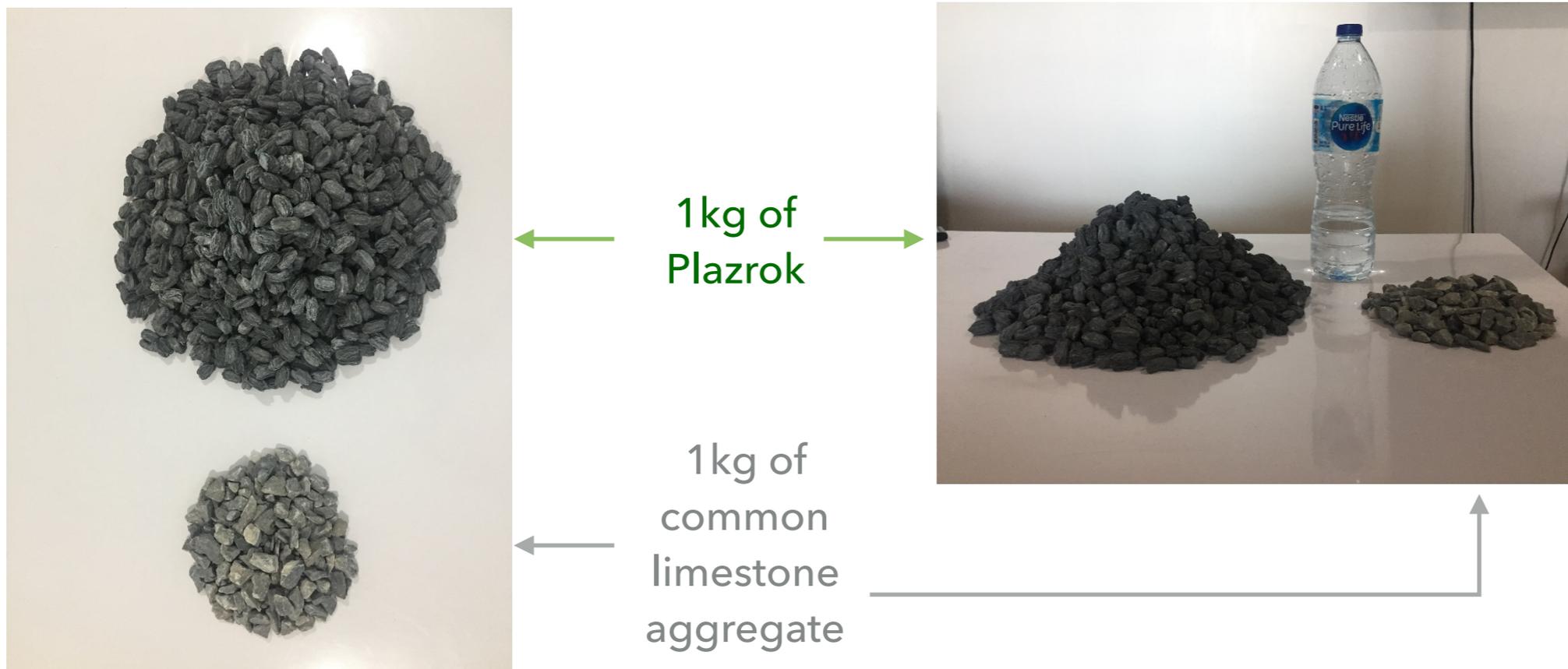
## WHAT IS PLAZROK?

### Performance characteristics of Plazrok - "helping bring concrete out of the stone age"

#### Weight / Density

Concrete produced using Plazrok can be made up to 40% lighter than standard concrete. Significant weight saving from conventional aggregate additives will enable lower transport and logistical costs.

Plazrok is non porous without water absorption like conventional lightweight aggregates.



## WHAT IS PLAZROK?

### Performance characteristics of Plazrok - "helping bring concrete out of the stone age"

#### Insulation

Concrete produced using Plazrok is expected to have superior thermal and acoustic performance over conventional lightweight air-entrained and alternative porous lightweight aggregates.



#### Compatibility

Plazrok provides opportunities for reduced energy impact and use of sustainable materials in building projects compatible with sustainable solution ratings.

Plazrok is compatible with existing concrete batching plants.