



UNLEASHED

The Optimization Game



A Fun and Impactful Way to Drive
Organizational Change



mooms@copperleaf.com
ceskesen@copperleaf.com

Why is decision making hard?

... although we need to make decisions every day.



How can the Optimization Game help your organization?

1.

Learn the tricks of the trade

An interactive way of planning optimization.

2.

Discover value-based decision-making

Experience the use of valuation frameworks for making investment decisions, based on advanced techniques used by world-class utilities.

3.

Optimizing planning

Learn how investment decisions can be optimized for short-, medium- and long-term plans.

4.

Exploring new opportunities

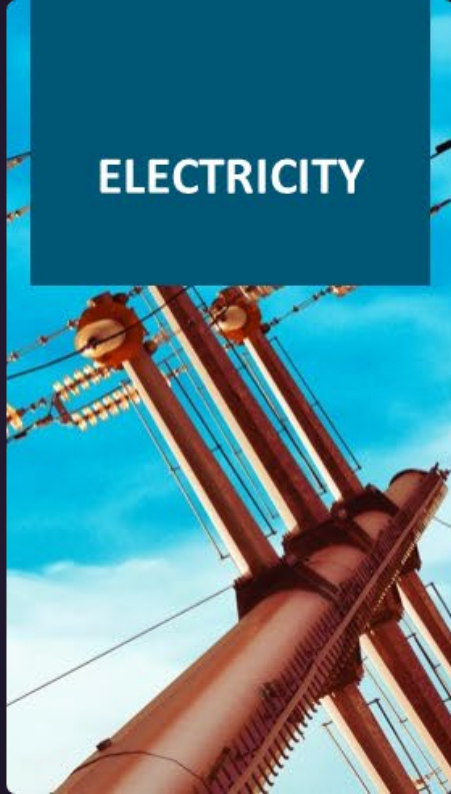
Gain valuable insight into tools and techniques available for optimized project decision-making.

Let's imagine we're part of the Copperleaf City Council...

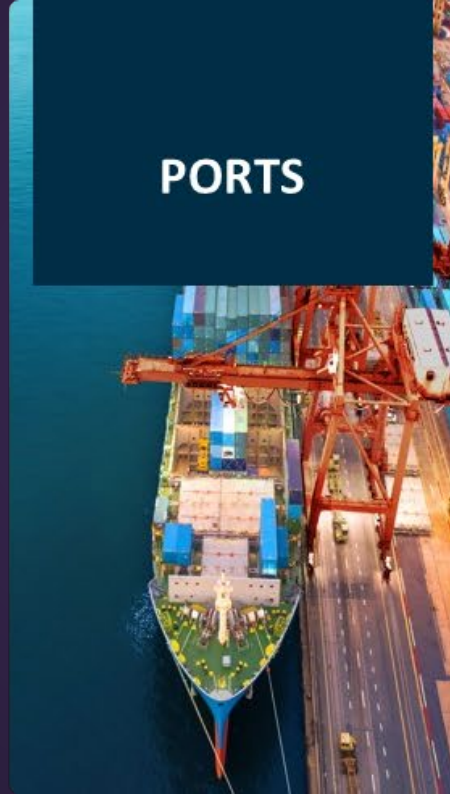
ROADS



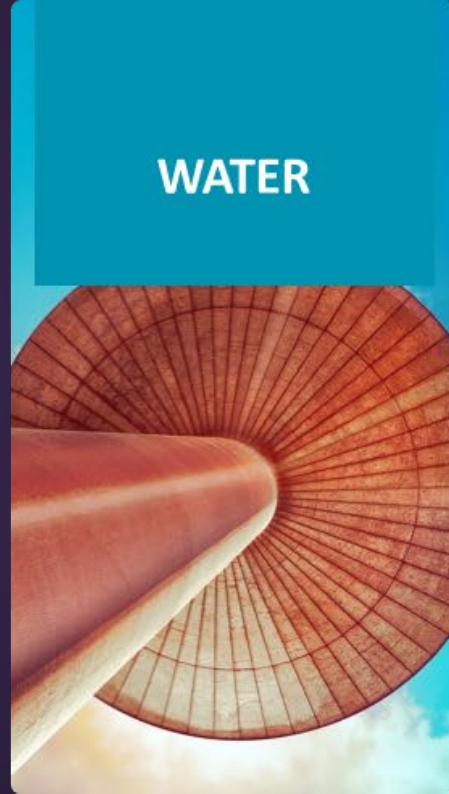
ELECTRICITY



PORTS



WATER



RAIL



Copperleaf City Council

PORTS



Copperleaf Optimisation Game

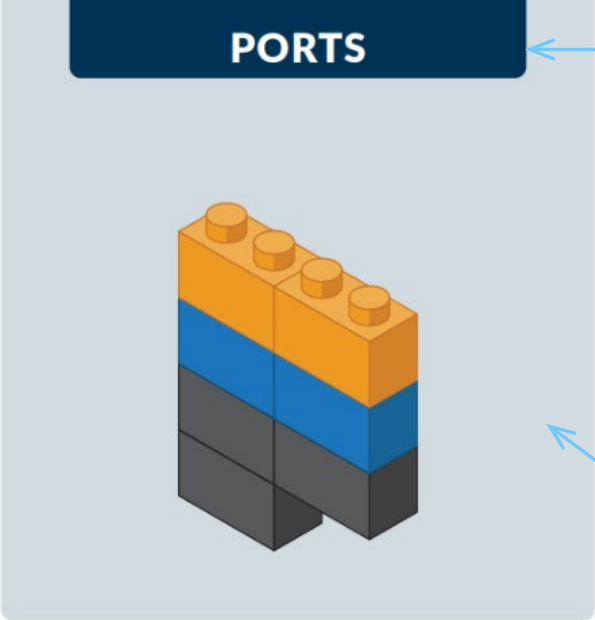
#P-001

Upgrading the port's security systems to comply with new legislative requirements and ensure the safety of port personnel and cargo.




Description

PORTS




2 x




Safety

2 x



Legislative

3 x



Cost

Portfolio

Costs and Benefits

The challenge for today

Create a 5-year investment plan for Copperleaf City Council with the highest value

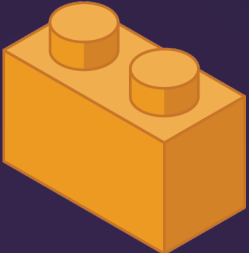
Value = Benefits - Cost



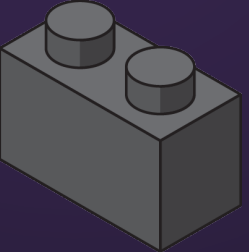
Copperleaf City Council

PORTS

2 x Safety 2 x Legislative 3 x Cost



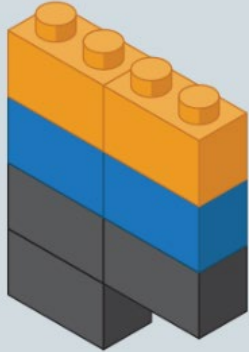
1 **Coloured** Brick = 1 Benefit Unit



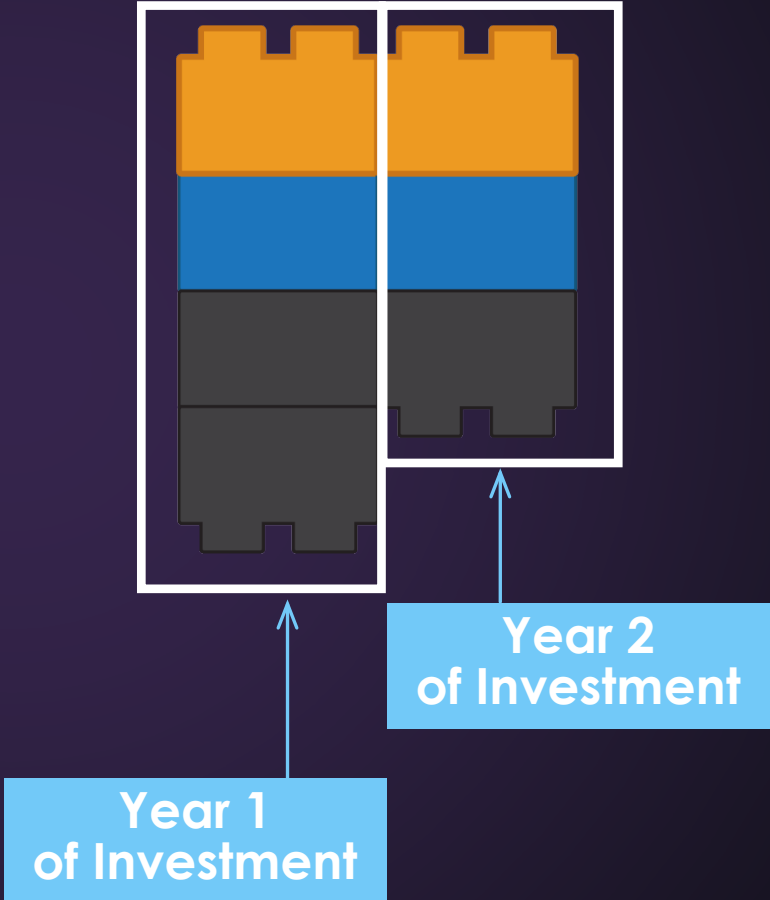
1 **Black** Brick = 1 Cost Unit

Copperleaf City Council

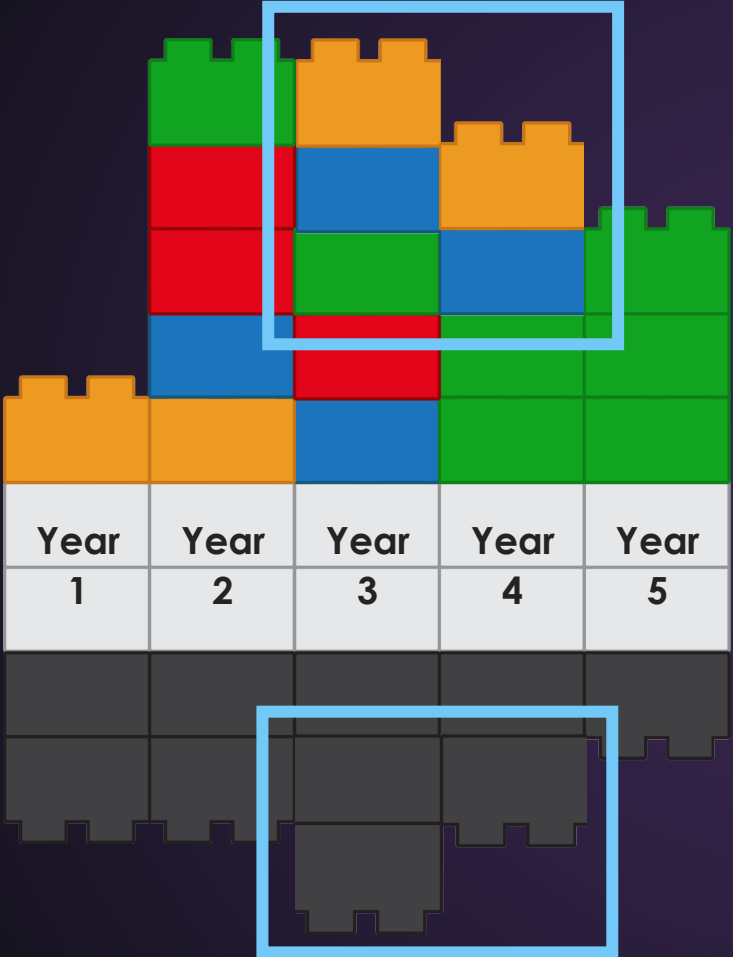
PORTS



2 x Safety 2 x Legislative 3 x Cost



Copperleaf City Council



PORTS

2 x

Safety

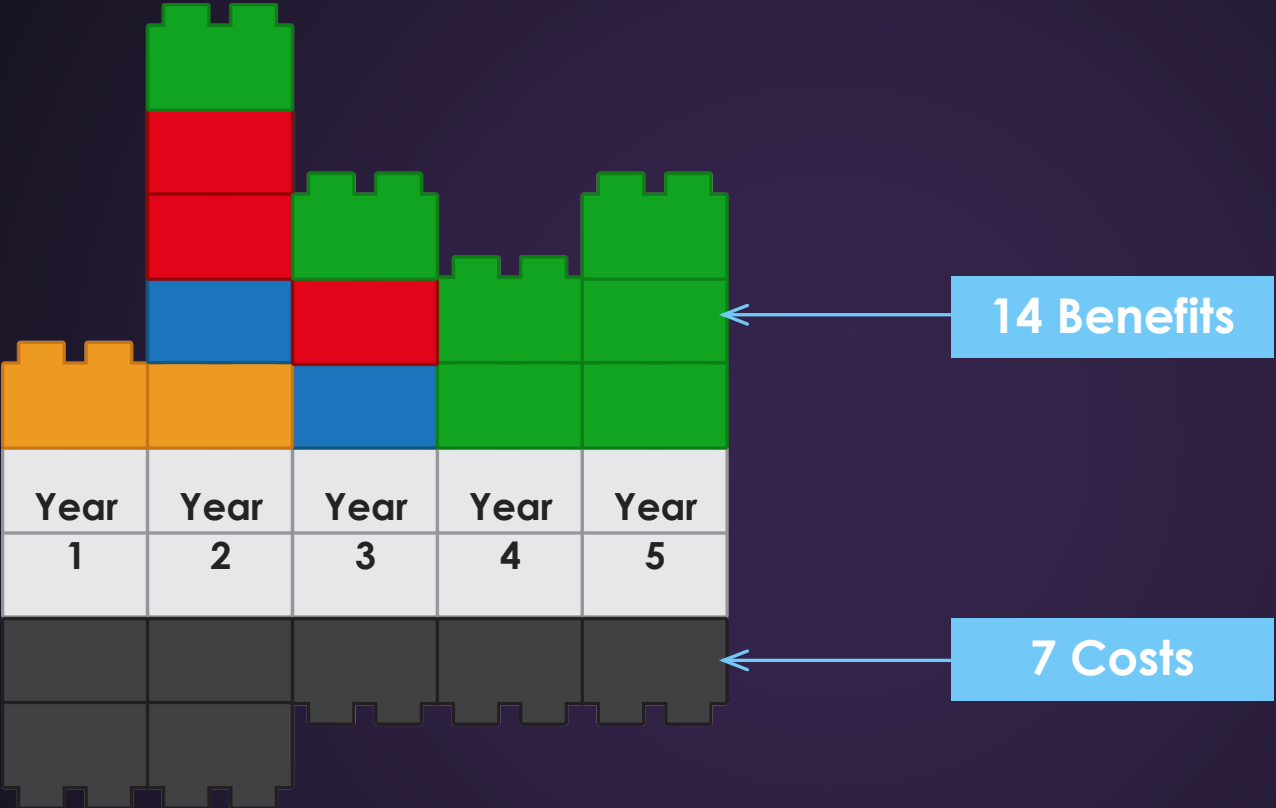
2 x

Legislative

3 x

Cost

Copperleaf City Council



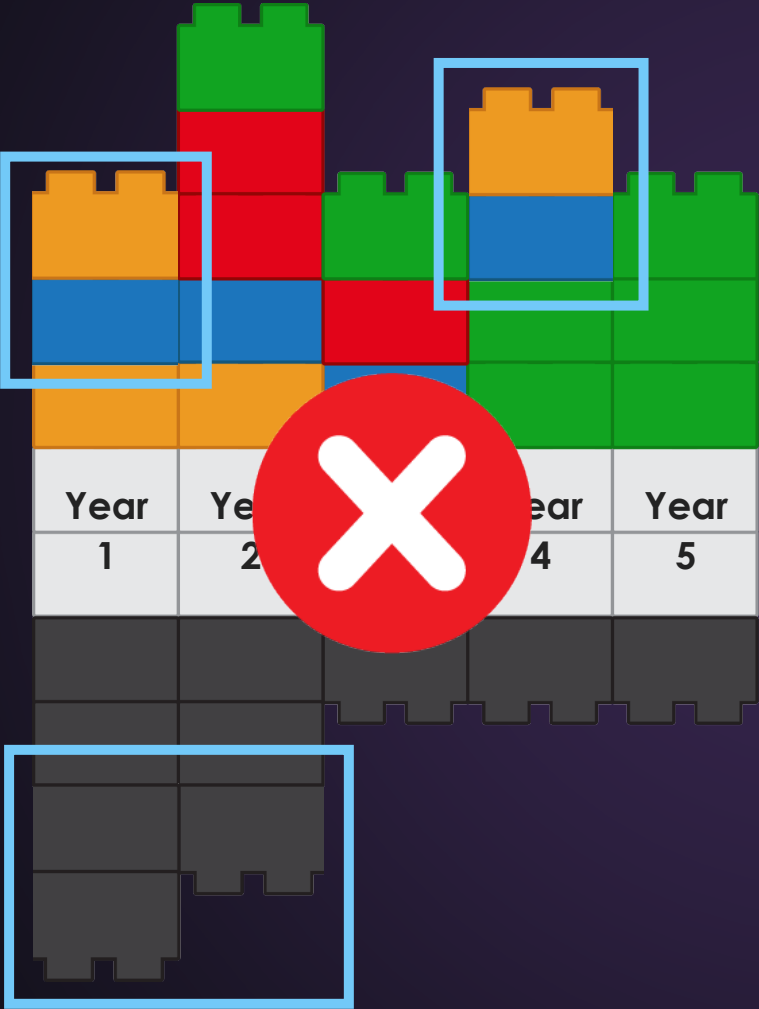
14 Benefits

7 Costs

$$14 \text{ Benefits} - 7 \text{ Costs} = 7 \text{ Value}$$

$$14 \text{ Benefits} / 7 \text{ Costs} = 2 \text{ B/C Ratio}$$

Copperleaf City Council

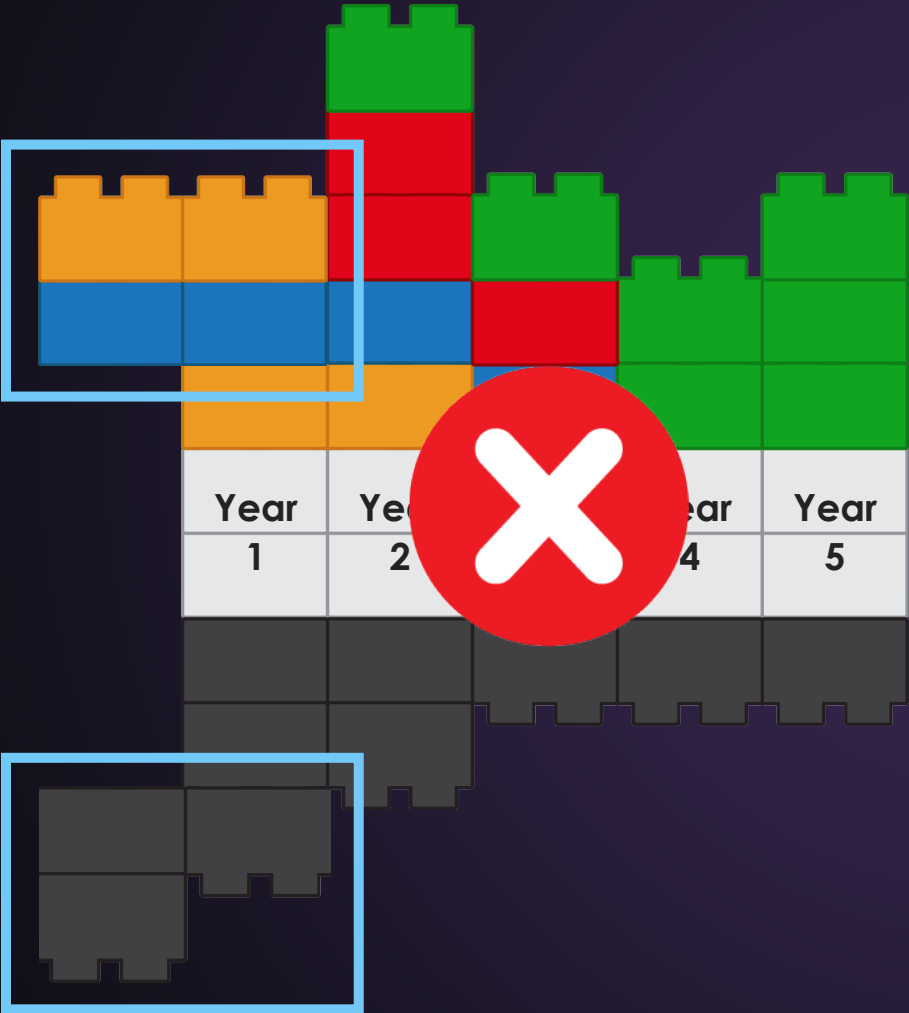


PORTS

2 x Safety 2 x Legislative 3 x Cost

Rule 1
Investment benefits and costs cannot be split up or mirrored

Copperleaf City Council

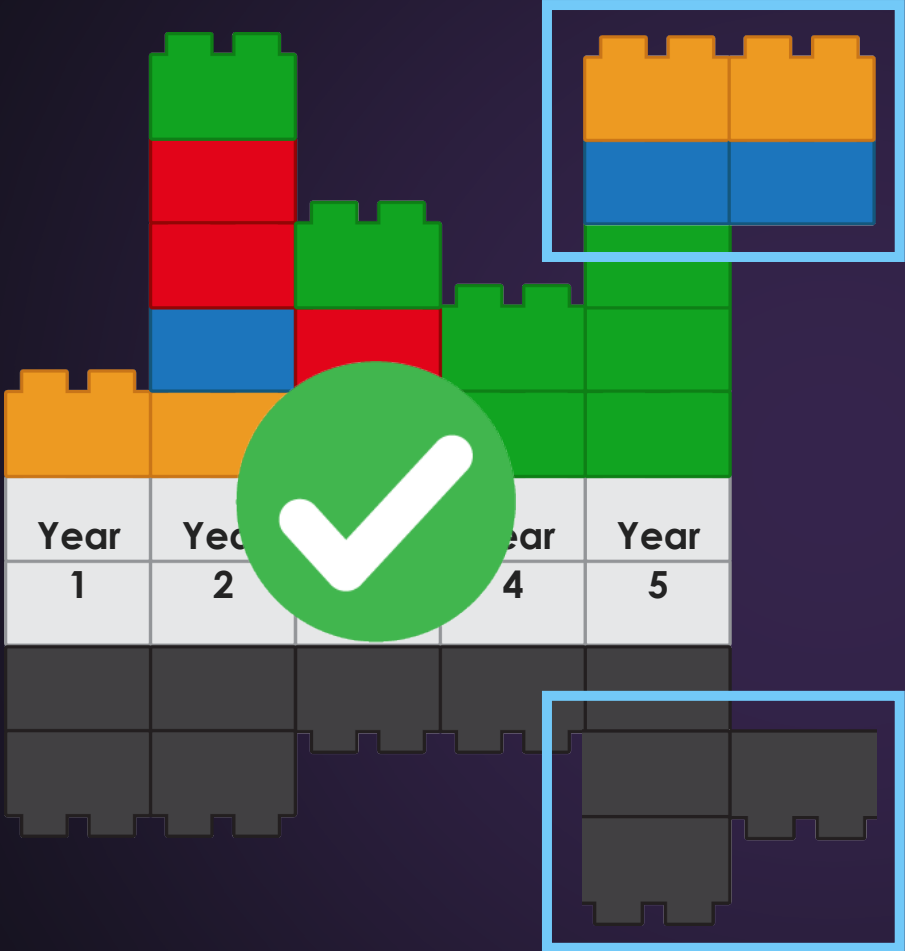


PORTS

2 x Safety 2 x Legislative 3 x Cost

Rule 2
Investments cannot be placed before Year 1

Copperleaf City Council



PORTS

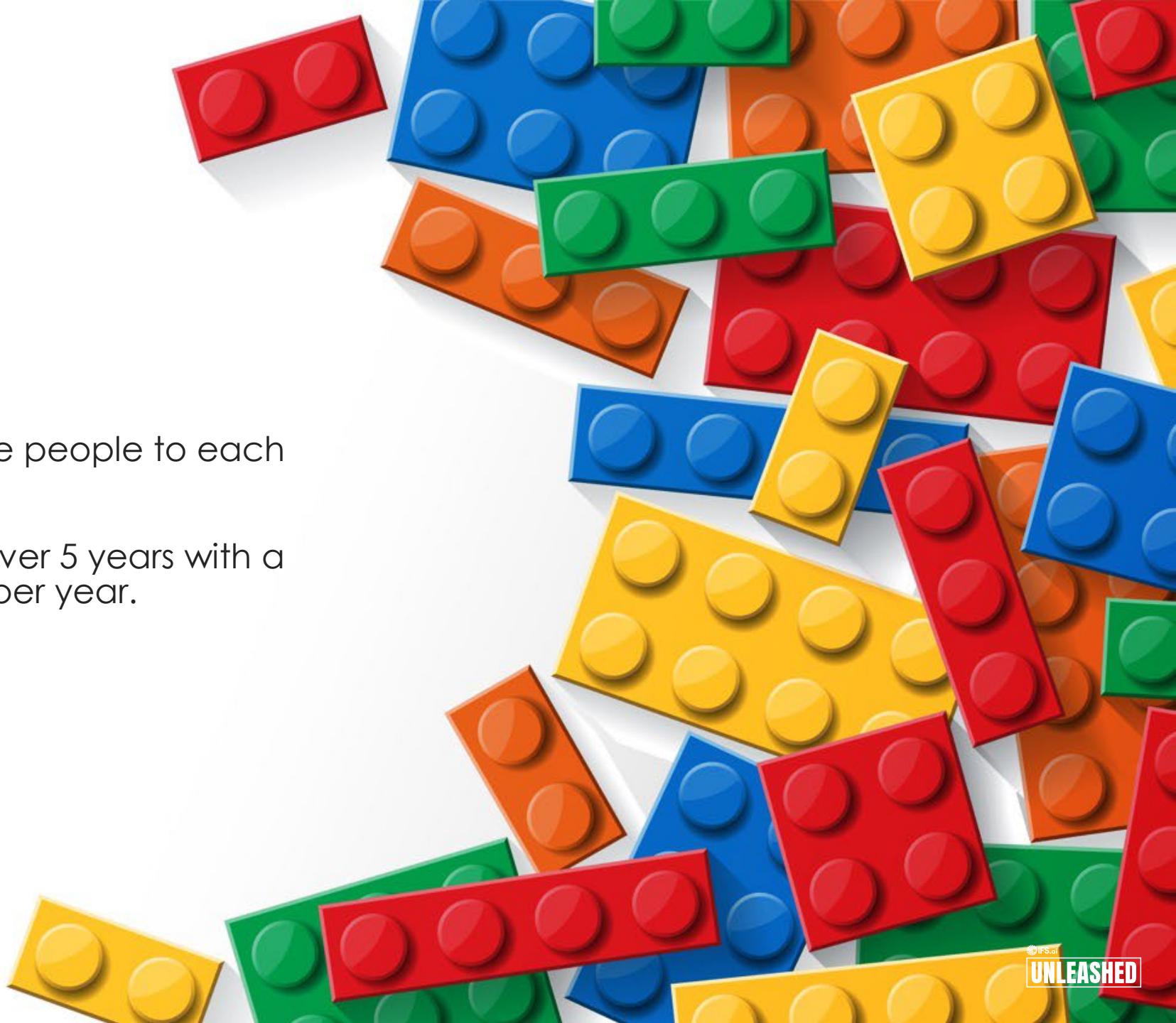
2 x Safety 2 x Legislative 3 x Cost

Rule 3
Investments can have benefits and costs after year 5. However, anything past year 5 will not be counted towards value

Copperleaf City Council

Scenario 1

- In your tables assign one or more people to each portfolio.
- Create the highest value plan over 5 years with a maximum spend of 2 cost units per year.



Scenario 2

- Combine all the portfolios at our table to create a combined 5 years with a maximum spend of 9 cost units per year.
- You must have at least 2 environmental benefits in all years of the plan.



UNLEASHED