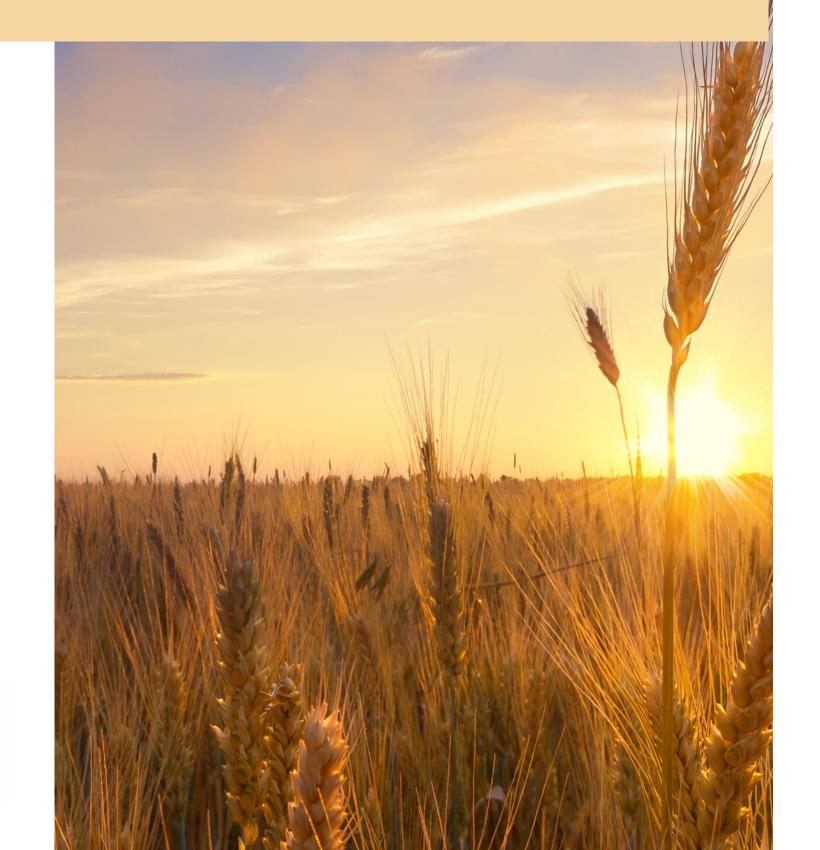
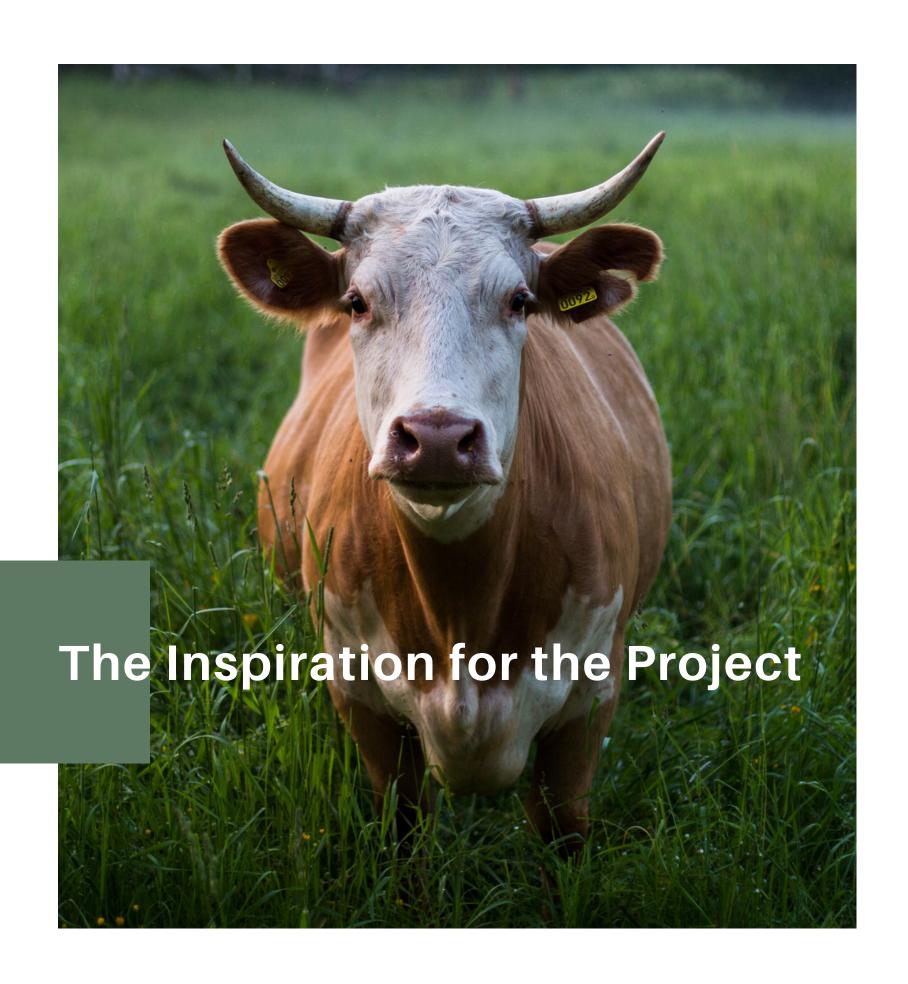
PRESENTED BY DOMINIQUE MARENDY



Harvesting Solutions: Examining the Relationship between Population Growth and Sustainable Food Systems

A Research Project Completed as part of the Mercy Global Action Emerging Leaders Fellowship





Sprouting the Foundation

An animal health scientist who is passionate about using facts to give hope and inspiration

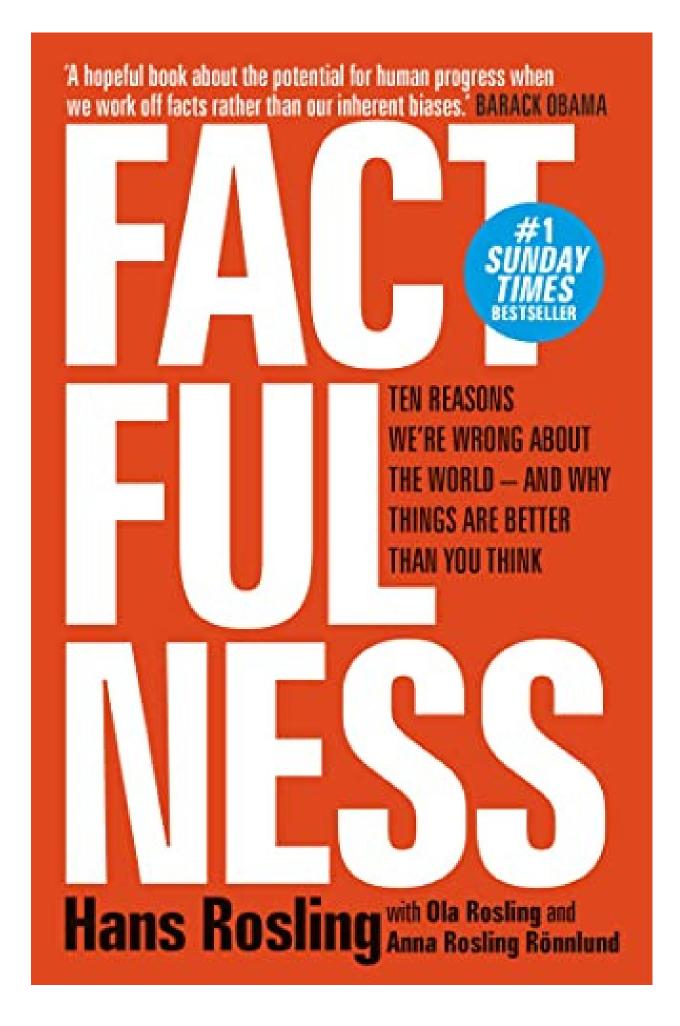
Compasion fatigue is made worse by the catostrophised image of the world we are shown





Dominique Marendy (Parramatta)

To be called to the community of Mercy is to live a life lead by a deep compassion for the world around you. Many of us champion many causes. Inundated daily with images of the world around us and plights calling to be heard. The ready access to information provided by the ever-advancing technologies of this world can make these many plights





"The simplest and most practical lesson I know...is to resolve to be good today, but better tomorrow."

Catherine Mc Auley

The Balancing Act

Between Population Growth and food sustainability





USE FACTS TO EMPOWER

Use data driven facts to help people feel change is possible



TO ALLOW PEOPLE TO ACT IN A WAY THAT IS AUTHENTIC TO THEM

This project isn't designed to tell you how to live



ENSURE PEOPLE FEEL REPRESENTED

Highlight the great work people are doing all over the world in this space







Blooming Numbers:

Understanding Population

Growth





8 Billion

Better Health Care, improved living conditions and reduced infant mortality

Education of women



Blooming Numbers:

Understanding Population

Growth



It varies by region





CHALLENGES

Food Security

Resource Security

Urbanisation and Infrastructure

Environmental Impact

Health and Social Issues



OPPORTUNITIES

Economic Growth

Cultural Diversity and Exchange

Innovation and Technological

Advancement

Social Progress and Development



Seeds of Demand





Seeds of Demand



Increased Food Requirements



Environmental Impacts



Changing Dietary Patterns



Agricultural
Intensification and
Technological
Innovations



Urbanisation and Dietary Shifts



Hidden Hunger: Nutrient Deficient Diets





Cultivating A Greener Plate

Defining Sustainable Food Systems

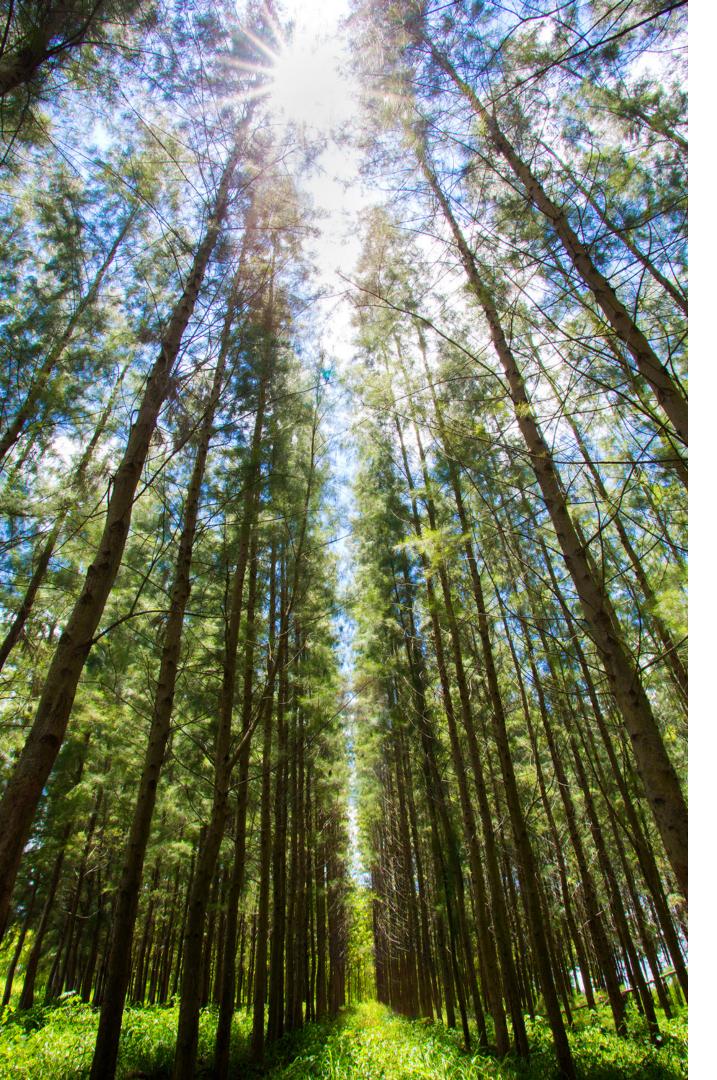
"a food system that delivers food security and nutrition for all in such a way that the economic, social and environmental bases to generate food security and nutrition for future generations are not compromised."

Food and Agricultural Organisation of the United Nations

Key Principles

- Environmental Stewardship
- Social Equality
- **Economic Viability**
- Health and Nutrition
- Resiliance and Adabtability
- Collabration and Knowledge
 Sharing







Agroforestry

Carbon Farming





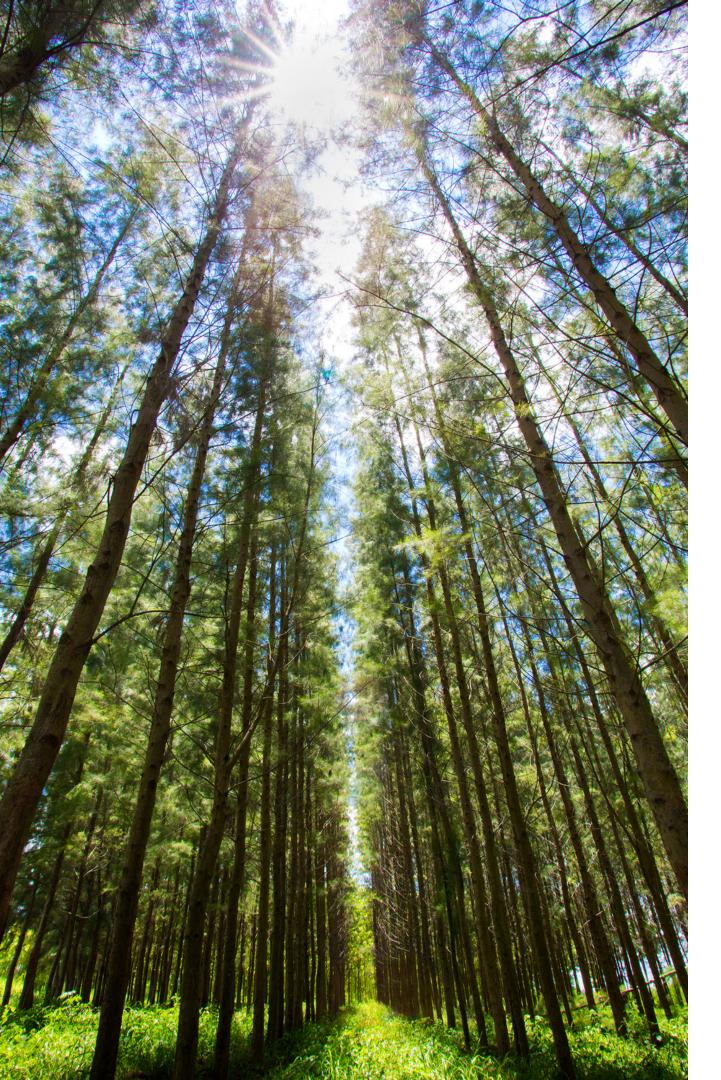
Permaculture

Hydroponics and Aquaponics





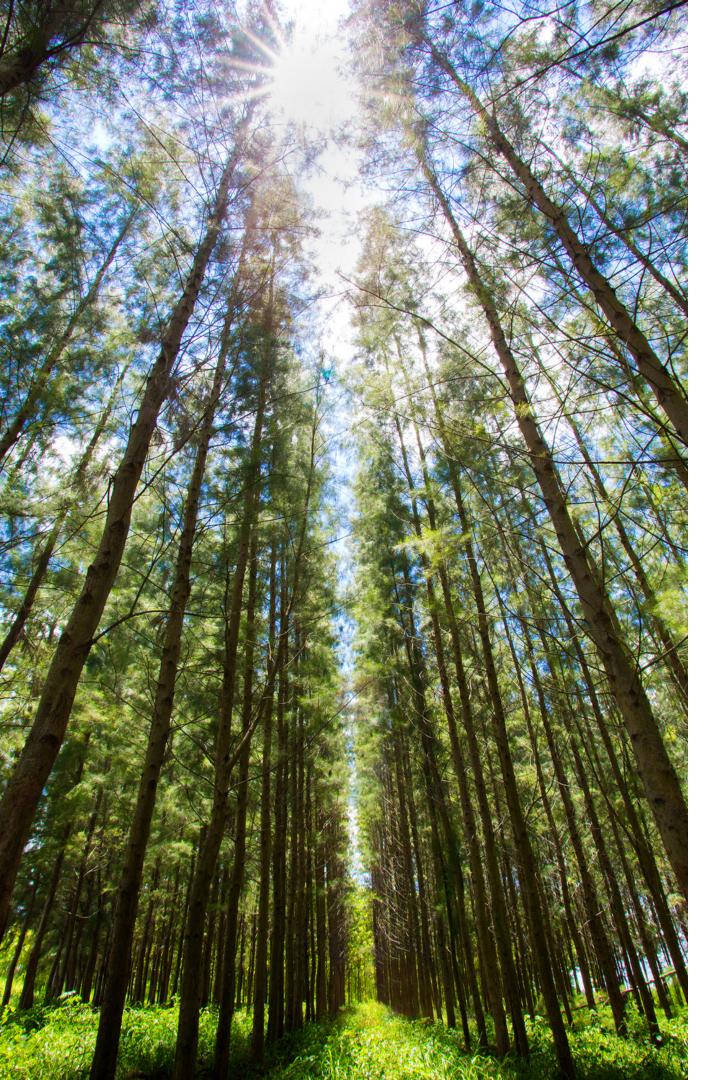
Reduced Food Waste





Agroforestry

"integrates the cultivation of trees with crops, livestock, or both, on the same piece of land. It is a sustainable agricultural practice that offers a range of benefits"

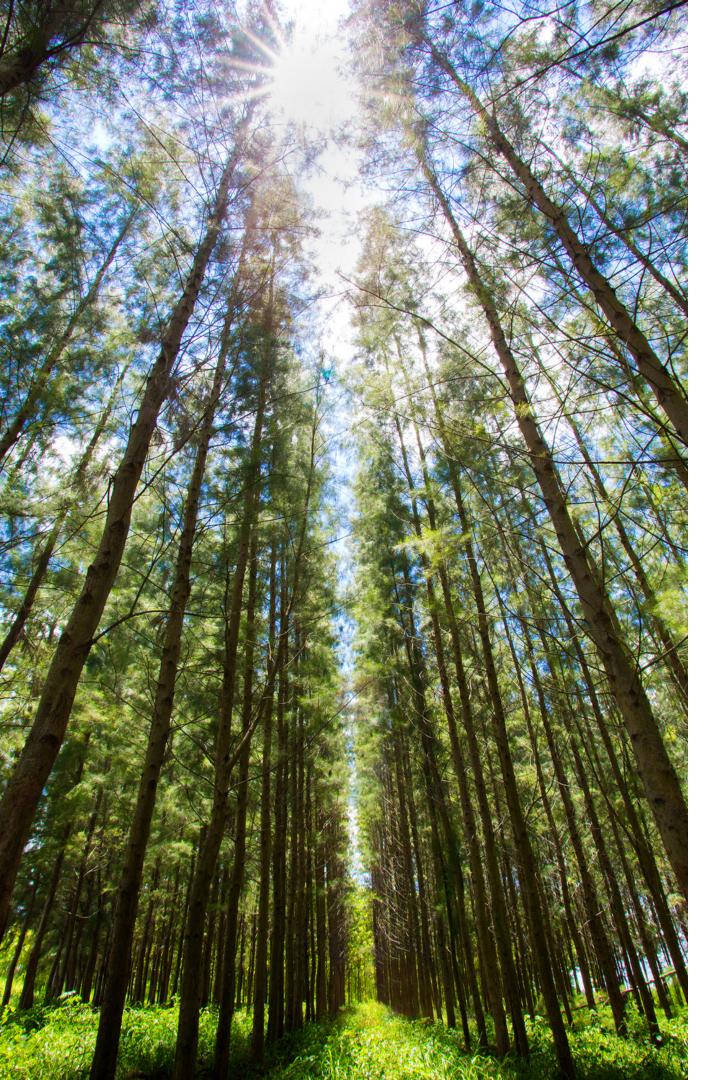




Agroforestry

Pros of Agroforestry:

- 1. Biodiversity and habitat preservation:
 - 2. Soil health improvement:
- 3. Carbon sequestration and climate change mitigation
 - 4. Diverse products and income streams5. Microclimate regulation

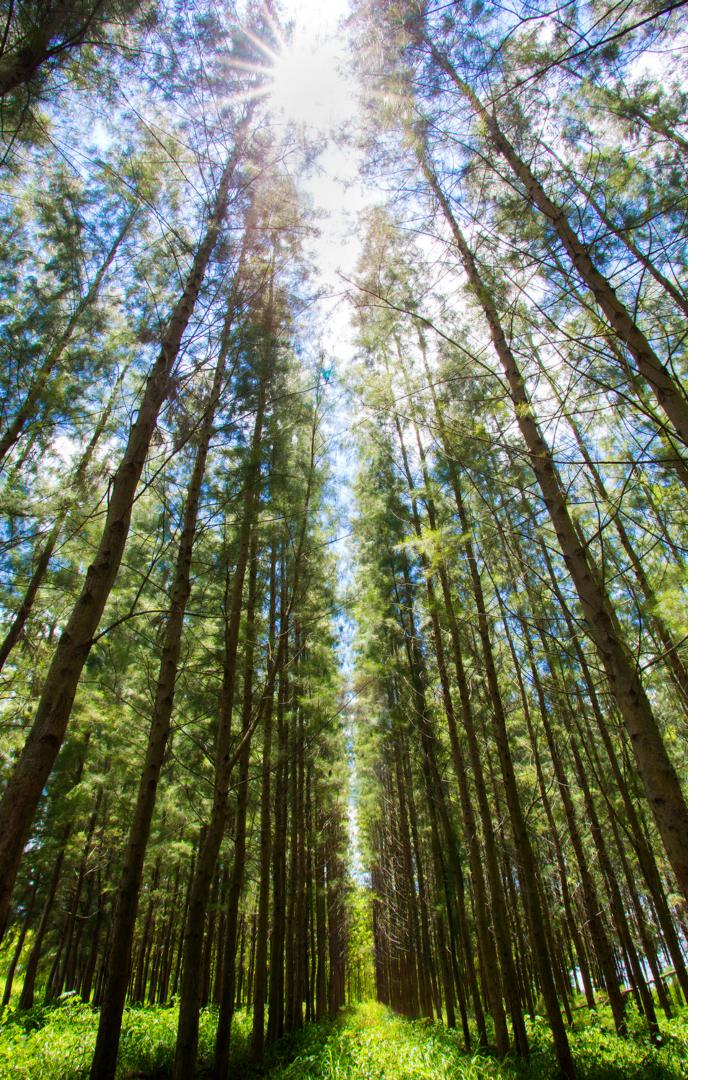




Agroforestry

Cons of Agroforestry:

- 1. Management complexity
- 2. Initial investment and time
 - 3. Market challenges:





Agroforestry

Best Uses of Agroforestry:

- 1. Marginal or degraded lands
 - 2. Small-scale farming
- 3. Watershed and conservation areas
 - 4. Climate-vulnerable regions



WHAT CAN YOU DO?

What changes can you make as an individual in your day to day life to ensure we can feed the world sustainably



WHAT CAN YOUR COMMUNITY DO?

What can communities do to ensure equity in access to nutrition



WHAT CAN YOU ASK YOU GOVERNMENT TO DO?

What legislative and policy changes are required to ensure sustainable food supply





WHAT CAN YOU DO?

Practice sustainable consumption
Grow your own food
Support sustainable farming



WHAT CAN YOUR COMMUNITY DO?

Establish community Gardend
Implement food rescue programs
Promote sustainable food education



WHAT CAN GOVERNMENTS DO?

Sustainable agriculture policy
Invest in R&D
Establish food waste reduction targets



Seeing yourself in the Picture





































Seeing yourself in the Picture

Sherri Mitchell

born and raised on the Penobscot Indian reservation

LAND PEACE FOUNDATION

an organization dedicated to the global protection of Indigenous land and water rights and the preservation of the Indigenous way of life.

Camille Goldstone-Henry

proud Kamilaroi woman

XYLO SYSTEMS

a cloud-based, data and AI platform that supports those conserving and impacting biodiversity to measure and manage impact.



Key Takeaways

Harvesting Insights

Making sure this guide sprouts a conversation

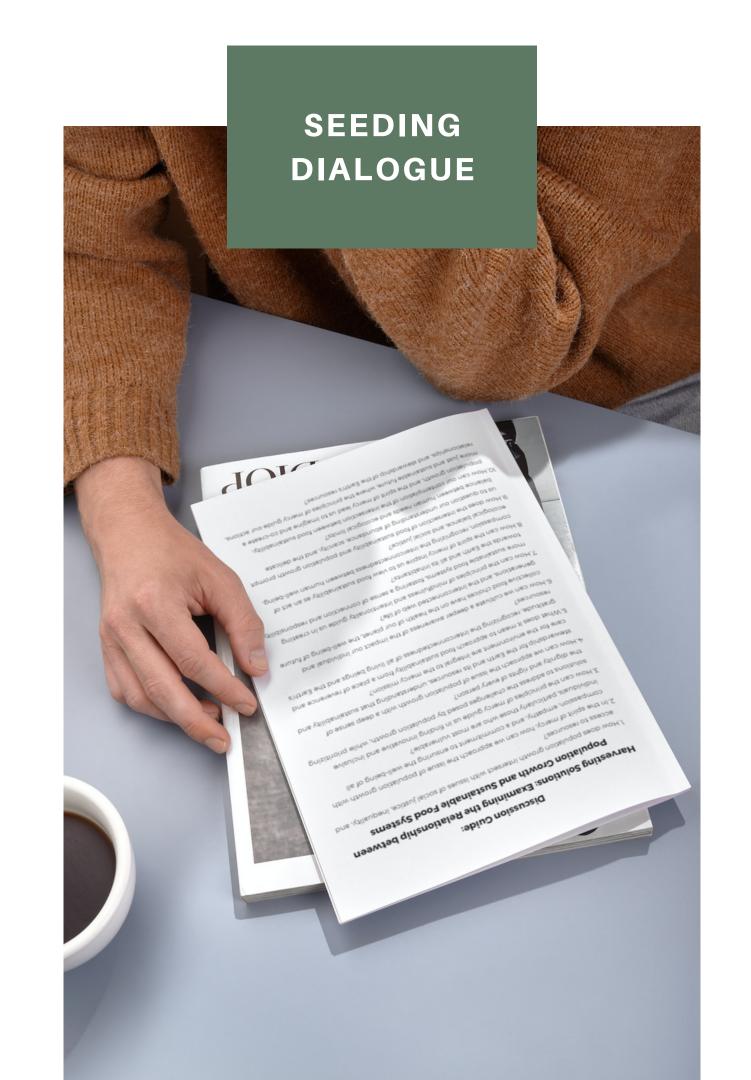
How do I ensure people are using this?

Creating a Theological Discussion

Discussion guides for schools or iterest groups exploring the theology

Creating a fact based discussion

Discussion guide for schools or interest groups for geography, science or social sciences



Thank you

