



Best in Sustainability



# HaPPE Earth

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# HaPPE

A logo consisting of a green smiley face shape with the text 'HaPPE Earth, Healthy Earth' written in a curved path around it.

## Compostable Bioplastics PPE



# We are HaPPE Earth

We help the healthcare industry:

- Make the shift from single use plastic consumables to medically approved compostable alternatives;
- Reach their sustainability goals.

## Key People in the Leadership Team

**Dr Mary O’Riordan:** Clinical Advisor. 20+ years’ experience in medicine, specialising in highly infectious emerging threats preparedness and response.

**Lisa O’Riordan:** Business Owner with 20+ years’ experience in events industry logistics and apparel manufacturing

**David O’Riordan:** Instrument/Mechanical engineer. In depth background in managing business and technical change projects, in mission critical environments.

**Pearse Ryan:** 20+ years with Arthur Cox, as a partner in the Technology & Innovation Group, working with technology-dependant and technology-supplying organisations, across the private and public sectors.

# Guided by Our Mission

To reduce single use plastics in the medical industry with CE approved compostable alternatives.

# Defined by our Ethos & Values



# Addressing Global Plastics Crisis

Plastic waste is generated at a rate approaching 400 Mega tonnes per year.

Healthcare is a major contributor to this single-use plastics problem, is the 5th biggest greenhouse case emitter on the planet.

Only 10% of global healthcare waste is recycled.



# Global plastic apron usage

20.5 BILLION APRONS

Includes non-healthcare and all countries

13.5 BILLION APRONS

Healthcare and countries with sustainability agenda



If the global health care sector were a country, it would be the fifth-largest greenhouse gas emitter on the planet, according to healthcare's climate footprint.

4.4% of global plastic waste is generated by hospitals, according to Practice Greenhealth.\*\*

If the Irish health service removed single use plastic aprons, it would mean a reduction in plastic waste by:  
**500 tonnes of plastic each year.**

Based on four apron changes per day and OECD bed numbers\*

\*<https://www.oecd.org/coronavirus/en/data-insights/hospital-beds-acute-care>

\*\*<https://practicegreenhealth.org/>

# Thinking beyond the *'one-time use'*

## HaPPE value for functional consumables

- Carbon emission 64-75% Reduction
- Residual waste and toxic residue - Nil
- Single use plastics tax- Nil
- 'First do no harm' concept - Compostable product in single composting cycle (8 Weeks)
- Local manufacturing plus with European, sustainably sourced bio-resin,
- Supply chain security with local manufacturing

The added value has a higher initial unit cost price.

# Certified Medical Products

The HaPPE apron is made from HaPPE's Proprietary Resin composed of an innovative family of compostable bioplastics that have been developed over the past twenty-five years.

- It matches all the safety parameters of current LDPE single use aprons.
- CE approved according to:
  - PPE Regulation (EU) 2016/425
  - Class I medical devices Medical Device Regulation (EU) 2017/745 (MDR)
- With optimal composting- aprons disappear in **approximately 8 weeks** compared with 50 years for LDPE plastic in landfill.

# HaPPE Compostable Cycle



HaPPE Earth champions sustainability and the circular economy by aiming to bring together:

- Medical grade functional compostables
- Sustainable Development Goals (SDG) measurement for healthcare,
- Compostable medical waste solution
- Other pipeline products.

# Compostable PPE - no longer a choice

- A tonne of compostable PPE products is a tonne of added value

but

- A tonne of plastic aprons is a tonne of problems

*“I hate wearing all that plastic, I know we have to, but I am so worried that we are making everything worse for the next generation”*

Rosarie – HIHI-HSE Pilot study - Nurse

## HaPPE Versus Plastic Aprons

	
Compostable	Long life plastic
Disappears in 8 weeks	50 Yrs + in Landfill
CE approved	Long supply chain
Sustainable Maize source	High carbon footprint
Reduces plastic waste	Microplastic in water

# Summarising

- Provides guilt free PPE that protects without harm
- Assists in reaching sustainability targets
- Guides customers towards compostable alternatives and green solution products
- Enables the healthcare industry to be a leader in the reduction of single use plastics consumption.



# Key contacts & next steps

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# A singer, said it best....

*“If it can’t be reduced, reused, repaired, rebuilt, refurbished, resold, recycled, or composted, then it should be restricted, redesigned or removed from production.”*

– Pete Seeger, late American singer and social activist.



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# Compostable PPE

