



**KIASMA® Group S.r.l.**

# A GLOBAL CHALLENGE

**ENVIROMENTAL SUSTAINABILITY CLIMAT CHANGE**



KIASMA IS COMMITTED TO A SUSTAINABLE ENVIRONMENT BY PROVIDING SOLUTIONS, ENVIRONMENTALLY FRIENDLY TECHNOLOGIES FOR THE RECYCLING OF MATERIALS AND FOR THE SAFETY OF PRODUCTS ON SITE

AS PART OF ITS COMMITMENT TO RESPECTING AND PROTECTING THE ENVIRONMENT, EXPRESSED THROUGH THE IMPLEMENTATION OF AN ENVIRONMENTAL MANAGEMENT SYSTEM STRUCTURED IN ACCORDANCE WITH UNI EN ISO 14001



OUR EMPLOYEES ARE OUR MOST VALUABLE RESOURCE CONSTANTLY GIVING THEM TRAININGS.

WE ARE COMMITTED TO PROVIDE QUALITY SERVICES AND PRODUCTS IN ALL OF OUR BUSINESS ACTIVITIES: ETHIC WITHOUT COMPROMISE AND ENVIRONMENTAL AWARENESS.

WE ARE COMMITTED TO SUPPORT THE ENVIRONMENT IN A SECTOR WHERE GOODS MANUFACTURES MUST MEET GLOBAL DEMAND FOR RECYCLING AND DISPOSAL.

KIASMA'S PROVEN LEADERSHIP IS ABLE TO LEAD WITH INTEGRITY, COMPETENCE AND CREATIVITY. THIS ALLOWS US TO IMPROVE CONTINUOUSLY OUR RESPONSIBILITY BEING AN EXAMPLE TO FOR ALL THE OTHERS.

**The 2030 Agenda for Sustainable Development** is an action program for people, the planet and prosperity.

Signed on 25 September 2015 by the governments of the 193 member countries of the United Nations, and approved by the UN General Assembly, the **Agenda consists of 17 Sustainable Development Goals**

framed within a broader action program consisting of 169 targets or goals, associated with them, to be achieved in the **environmental, economic, social and institutional fields by 2030.**



The goals set for sustainable development have a global validity, concern and involve all countries and components of society, from private companies to the public sector, from civil society to information and culture operators.



The 17 Goals refer to a set of important development issues that take into account in a balanced way the three dimensions of sustainable development - economic, social and ecological - and aim to put an end to poverty, to fight against inequality, to addressing climate change, building peaceful societies that respect human rights.

Given that each Goal is important, let's see those on which we can intervene.

## GOAL 13 Fight against climate change:

-**Strengthen resilience** and adaptability to climate-related risks and natural disasters in all countries-Integrate measures to combat climate change into national, corporate and individual citizen policies, strategies and plans.

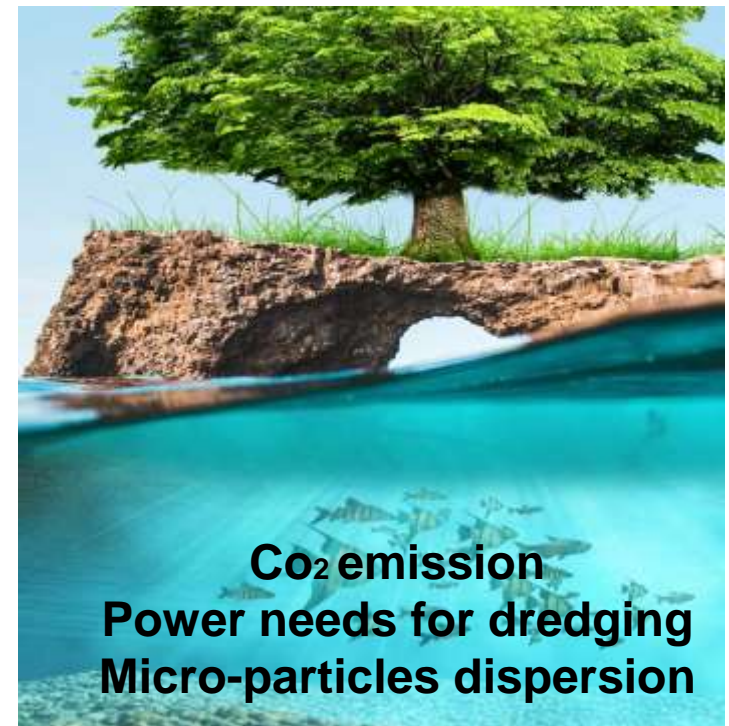
- Reduction of energy consumption by using alternative sources (solar and wind) and low consumption sources (led bulbs)



## OBJECTIVE 14: Life under water

-By 2025, prevent and significantly **reduce marine pollution** of all types, particularly from land-based activities, including marine litter and nutrient pollution of water.

-By 2020, manage and **protect marine and coastal ecosystems** in a sustainable way to achieve negative and significant results, strengthening their resilience and acting for their recovery, in order to obtain healthy and productive oceans.



## OBJECTIVE 8: Decent work and economic growth

- **Protect labor** rights and promote a safe working environment and protected for all workers
- **Reduction of storage** and handling of goods.
- **Reduction the number of rotation of the pipes** to preserve their duration



## OBJECTIVE 8: Decent work and economic growth

- **Protect labor** rights and promote a safe working environment and protected for all workers
- **Reduction of storage** and handling of goods.
- **Reduction the number of rotation of the pipes** to preserve their duration







# KIASMA SOLUTIONS

*“when passion  
meets talent and  
experience meets  
innovation,  
progress comes to life”*

*C.E.O.*

*Dott. M. Crotti*

## KIASMA KFC<sup>®</sup>system:

Imposes on the material transported a **rotational effect** that brings a large part of the aggregate to the center of the pipeline, **reducing pressure drops**

=

Reduction in the number of revolutions of the dredge pump (**lower fuel consumption and lower emissions of CO<sub>2</sub>**)

**KFC SYSTEM (patent):** Radial flow motion of the mixture inside pipe



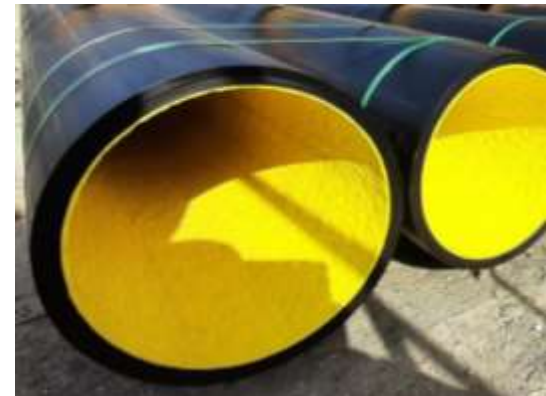
## KIASMA KNN33\_4.0<sup>®</sup>:

According to their physical and mechanical properties,

**KNN33\_4.0 AR - 1AR - 2AR** pipes offer improved performances in terms of abrasion resistance (abrasion proof pipes) and resilience.

**Abrasion loss** is a key parameter in the dredging sector (the lower the consumption of the material, the **higher the lifetime** of the discharge line).

And for the environment, **less dispersion of particles !!!**





## KIASMA KRC®

Is a system for monitoring the operating parameters of the discharge line:

### - Pressure

Evaluation of the hydraulic efficiency of the pipeline

### - Thickness of the pipe

Evaluation of the residual thickness of the pipeline without stopping the operations

### - Temperature

Monitoring of the main parameters along the pipeline



Name	PV	QV	Last Update
248C-LAB-DEMO	-0.114 mV	0.062 V	09/24/21 10:08:55
30115 PD DEMO	3.935 mV/QD AC	7.044 V	09/24/21 10:08:52
348-0200330 ext antenna	NaN	7.014 V	09/24/21 10:08:52
348T PD DEMO	42.002 DegC	NaN	09/24/21 10:08:50
whertgw	4	47.5 DegC	09/24/21 10:08:16



## KIASMA STANDARD FLOATS - KIASMA KIFLO FLOATS®

A life cycle analysis, projected over a period of no less than 50 years, shows that thermoplastic products have a far lower environmental impact than floats made from other materials.

The products can be **recycled and recovered** for use in other sectors or, alternatively, their energy content can be recovered in appropriate facilities.

KIFLO® Floats, are inflatable on site, **reducing the amount of containers needed by around 95%**.

In a logic of circular economy, KIASMA materials are designed, so as to predict from the beginning their recycling.

The **recycling** process consists in their fine shredding and the formation of new granules, that can be used in the moulding of new products.



## KIASMA DELOCALIZATION

The process of relocating production started in 2018.

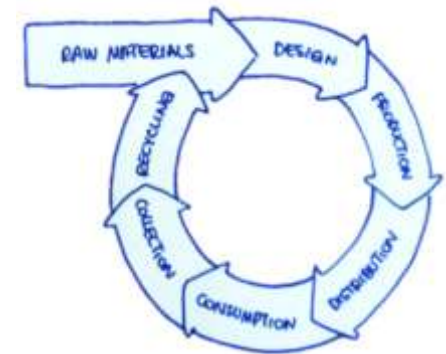
Delocalization results in **reducing co2 emissions** because of lower costs for moving the materials.

Transporting voluminous material involves the use of many containers.

Reducing distances between production and site reduces greenhouse gas emissions



- Reduction of CO2 emissions (Reduction of head losses )
- Reduction of fuel consumption
- Reduction of the dispersion of micro particles
- Reduction in the number of pipes turns
- Reduction of transport and storage of pipes
- All materials produced by KIASMA are recyclable
- Increase productivity
- Increases funding for the Environment & Sustainability





KIASMA® S.r.l.

**E**NGINEERING

**P**ROCUREMENT

**S**ERVICE ON SITE

*...there is no future without technological progress...*



Via Monte Adamello,31/H 31059 Zero Branco (TV) ITALY  
Tel. 0039 0422 97620

Fax 0039 0422 487447 [www.kiasmasrl.it](http://www.kiasmasrl.it)