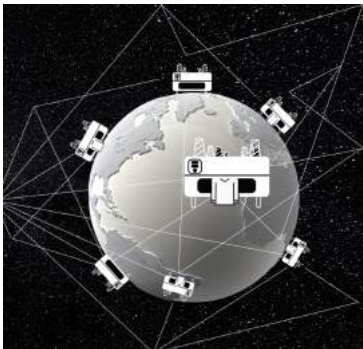# Knit.cloud

Platform for production on demand

In the current fashion system more clothes are pushed into the market than we can ever wear. With today's technologies we can reach whole new levels of sustainability. We can choose to produce only what people need.

By using industrial knitting machines as 3D printers we can produce fashion on demand on a potentially large scale. Entire garments can be made without cutting, without sewing, in less than an hour.

Knit.cloud, production platform for 3D printed knitwear, is designed to provide the best quality in an efficient, fast and local on-demand supply chain, where stock is no longer a necessity and where re-use of material is the norm.

Did you know there are 10.000 3D knitting machines in the world already? Knit.cloud is set up as an independent platform that connects creators to local machines everywhere. Efficient distribution of demand-based knitting orders in a growing network of machines optimizes machine capacity of all machine-owners.

The purpose of Knit.cloud is to ensure a livable planet for future generations by collectively making the transition from bulk to order-based manufacturing. Knit.cloud helps brands to:
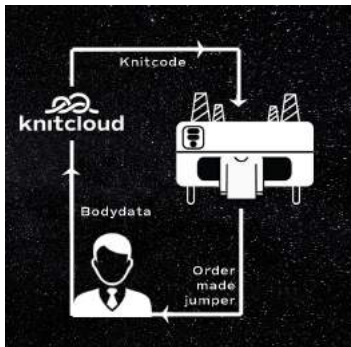
- *Provide what consumers really need*
  By producing made-to-measure versions of designs, by offering bespoke knitwear services, or by reproducing favorite items (virtual stock)

- *Empower local communities*
  By integrating existing on-demand local making processes and crafts with 3D knitting and other new and promising technologies

- *Preserve the planet*
  By inspiring consumers to buy less but better and reducing the number of clothes made. By creating new opportunities for local manufacturing connected to recycled materials from local waste streams

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Closing the loop with 3D printed knitwear

- Yarn in; garment out: material waste during production is less than 1%
- LCA shows that knitted garments use 20 times less energy in their lifetime than woven wear
- 3D knitwear is made from uncut threads, resulting in a strong durable garment construction
- 3D knitting is fully automated and flexible: suitable to produce fashion on demand quickly and locally
- Seamless 3D knitted garments can be unraveled and yarn can be re-used

Custom 3D printed knitwear in your store within 7 days

Knitting machines are operated by knitcode. Once a piece of knitcode is ready to knit, items can be ordered from 1 piece quantity. Lead times depend on the total number of order processed through our platform and vary from 30 days in the pilot stage to 7 days in the steady state.

- A reliable supply chain in a network of interchangeable machines
- Garment sold? Replenish within a week
- Or go completely stockless with made-to-measure or customized knitwear

New Industrial Order

New Industrial Order (N.I.O.) is a laboratory for fashion on demand where designers, engineers and entrepreneurs work together in research projects that contribute to the ecosystem for demand-based manufacturing. The N.I.O. core team has designed Knit.cloud to provide the technological infrastructure for 3D printed knitwear.

N.I.O. activities include:
- Knitwear developers network
- Knitcode sourcing
- Custom knitcode development
- Virtual product development
- Digital tailoring
- Virtual fitting
- Re-use of yarn

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