

Produto: Baby Look Algodão Colorido

Composição: 100% algodão orgânico colorido

Este é um produto 100 % original que possui código exclusivo de autenticidade. Todas as etapas produtivas foram rastreadas para assegurar um produto com responsabilidade socioambiental.



Clique e saiba como seu produto foi produzido.

CÓDIGO DE AUTENTICIDADE

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R-INOVE

S O L U Ç Õ E S T Ê X T E I S

TEXTILE AUTHENTICITY AND TRACEABILITY

ABOUT R-INOVE



- Brazilian **textile technology** company
- Has an **invention patent**
- Performs **binary coding** on the textile yarn
- Coding is supported by **geolocation**

- Approved in 3 FINEP notices in Brazil (Innovative Women, Sinapse Inovação PR and Tecnova 2 PR)
- Member of ITMF (International Textile Manufacturers Federation- 2022-2024)
- Technology implemented in the FR line in the 2 largest Brazilian FR fabric manufacturers.

CHALLENGE - The textile world has 3 big challenges:

1. **Piracy**: Difficulty of separating the true from the false.
2. Labour analogous to **slavery** and unfair processes.
3. Environmental **pollution** with disposal in landfills.

Improper disposal



Slave labor



Child labor







ORIGINAL FABRICS MIXED WITH FAKES

- ✘ They are identical. Same color, weight, pattern
- ✘ Both have watermarks
- ✘ Impossible to identify the difference visually
- ✘ Window of opportunities for mixtures of parts or completely false



They can lead to **serious accidents** or even **death** for workers who are using clothing (PPE) that does not have the necessary protection for their risky role.

SOLUTION | R-Inove developed a technology to traceability textiles, from the beginning production to the sanitary landfill.

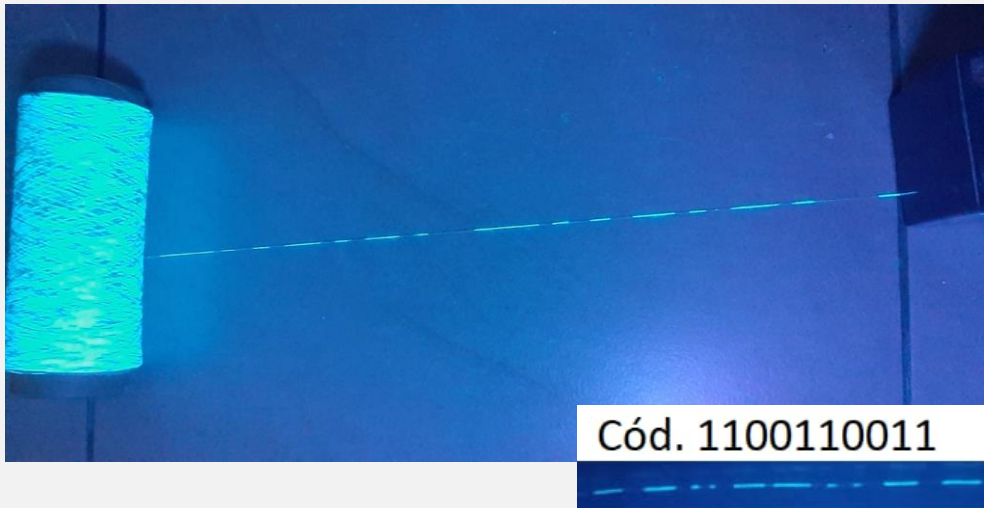


CODE PRINTING

- We developed an equipment that prints a binary code on the textile yarn, which can be 100% cotton or blends.
- It's possible to change the number of bits and the spacing between them.
- One encoded yarn is enough, low cost.
- Binary code can only be seen with ultraviolet light

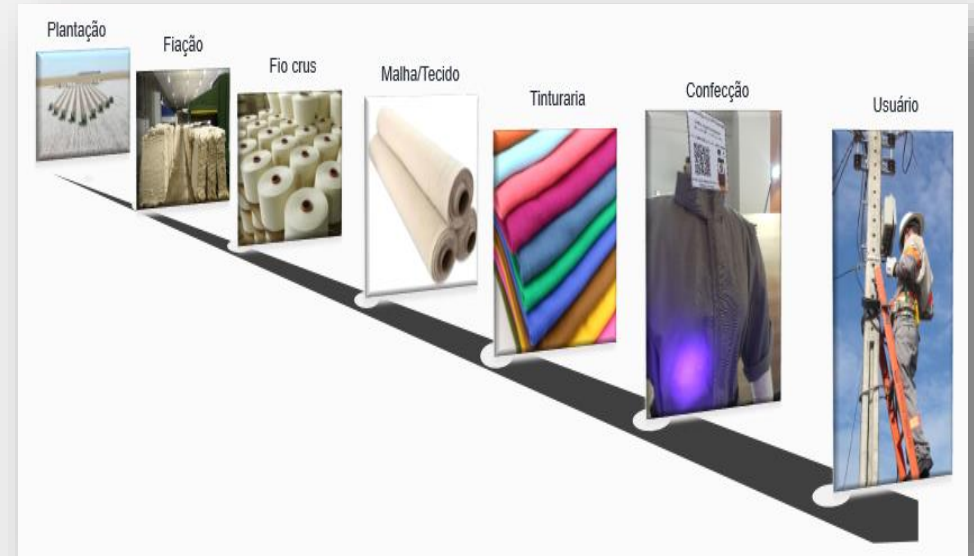
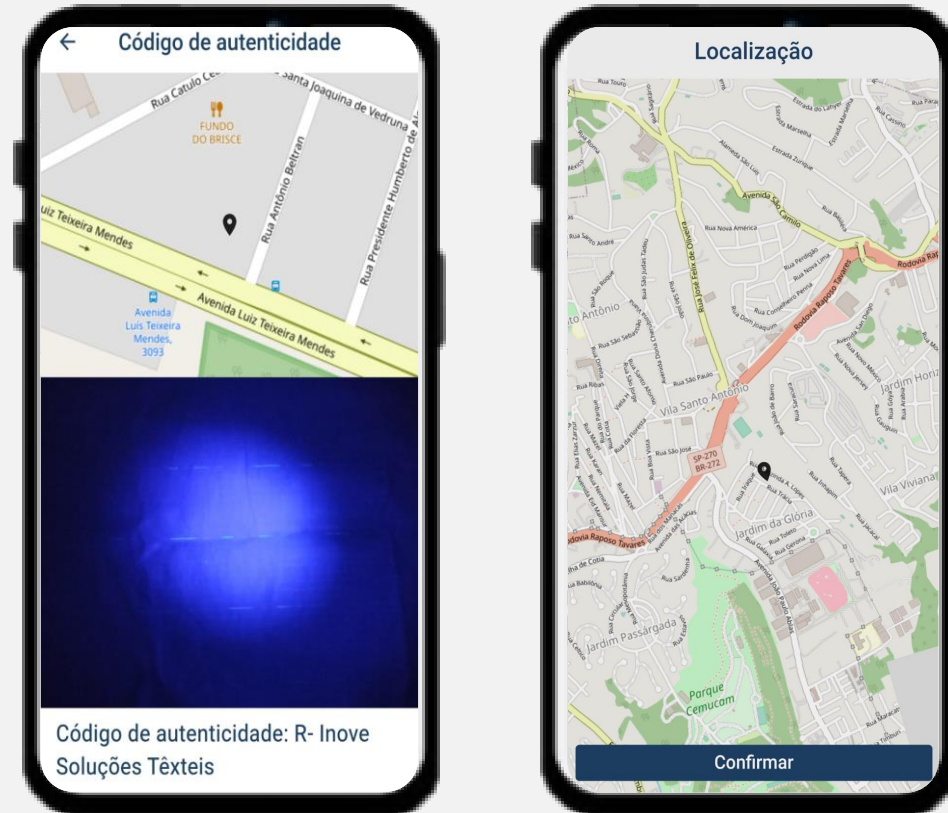


Binary code on the yarn



INFORMATION REGISTRATION AND GEOLOCATION

Process and raw material traceability data are entered into the R-INOVE platform and are subject to proof via **GPS** of the location of the production stage. This is to ensure registration of the location of the textile processing of the coded product, mitigating the possibility of informal production in another manufacturing unit.



- The app requests a photo at each open production stage, in a very simple way, recording the information linked to the product/batch, as a guarantor of production geolocation.

READING BY QR CODE | Read and experience this experience



PRINTED | VISCOSE



100% COLORED COTTON



100% COTTON (FR)



88% COTTON
12% POLYAMIDE (FR)

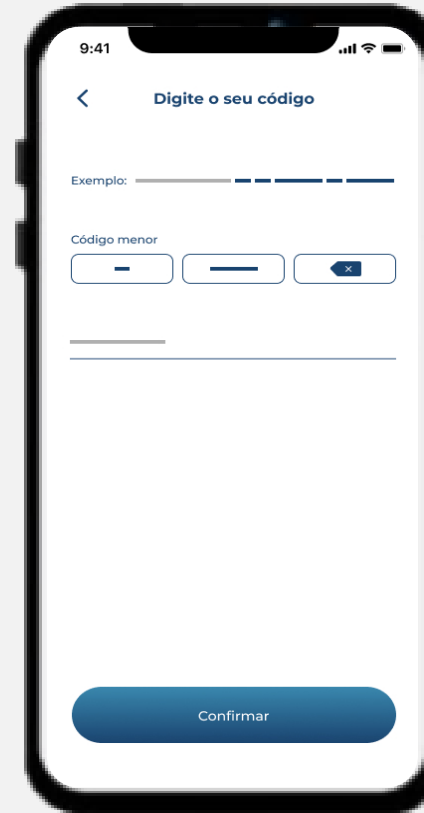


100% COTTON



READING BY THE R-INOVE APP (Apple and Play Store)

(No need for a label and can be read even on washed items. Permanent code)



1. Enter the code according to the sequence



Larger bar – represents binary 1
Smaller bar – represents binary zero

READING BY AUTOMATIC READER

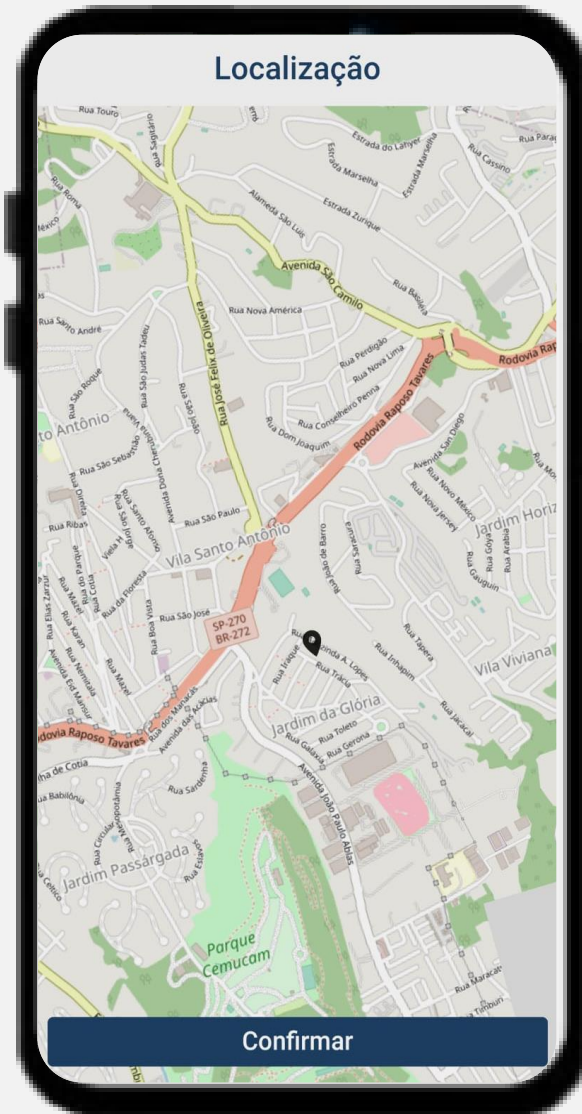
Immediate information on product and process originality and traceability.



- Made using a 3 D printer
- Automatic reading
- Connects to cell phone via Bluetooth.



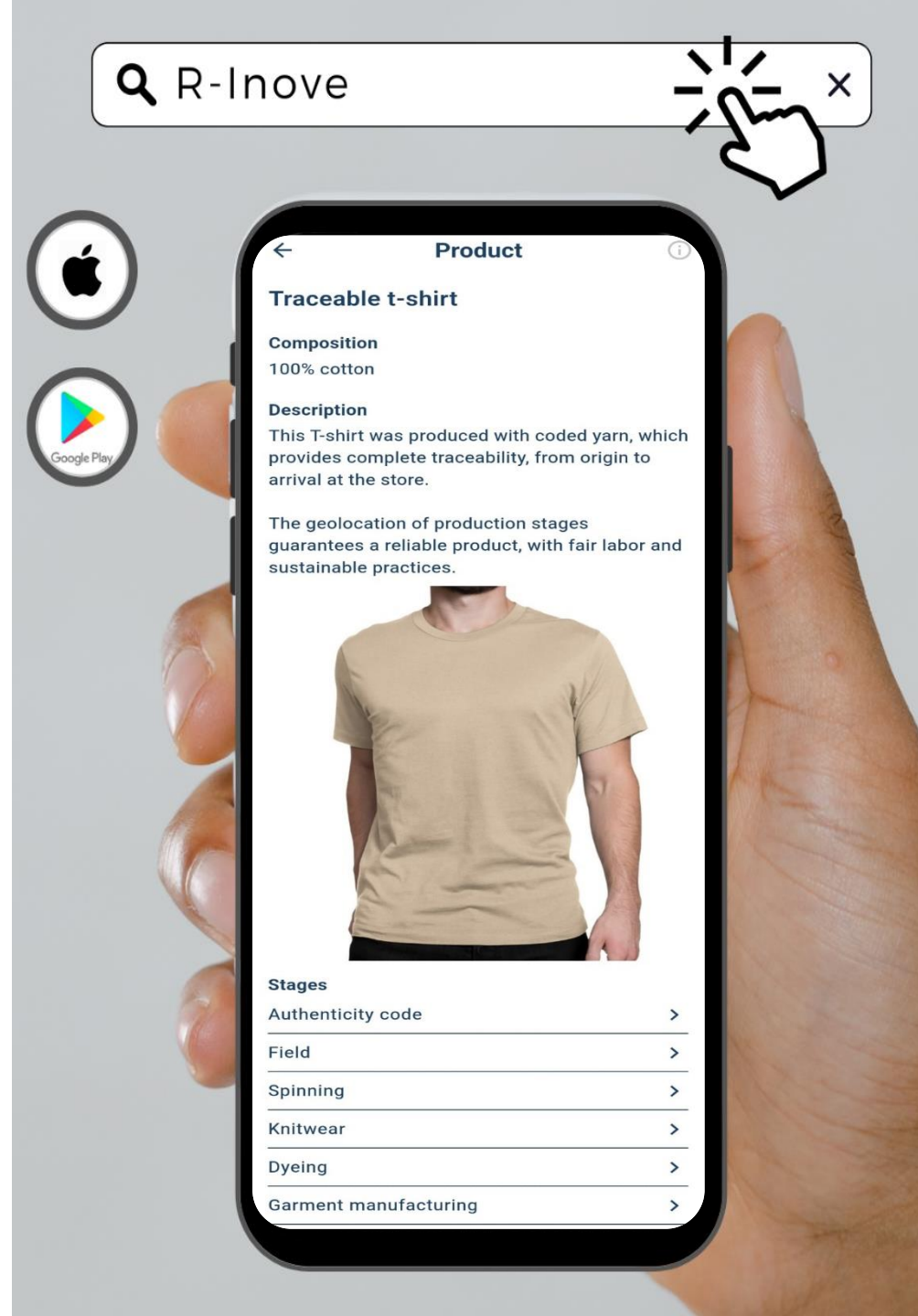
CIRCULAR ECONOMY



In March/25, the R-Inove app starts providing information on collection points by geolocation, facilitating the Circular Economy.

ADVANTAGES OF TECHNOLOGY

- **Democratic**, available to everyone
- **Speeds** up receipts and checks
- Mitigates doubts about the **quality and origin** of the fabric
- **Facilitates** inspections and audits
- **Individualizes** companies
- Proof is **immediate**
- It has **economic viability**
- **Difficult** to copy
- Promotes the **circular economy**
- Possibility to **tokenize**
- Possibility of control by individual **serial number**



Customer



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