

INTERNATIONAL
**COTTON
CONFERENCE
BREMEN**

2024



20 - 22 MARCH 2024 | BREMEN PARLIAMENT HOUSE

PRESENTATION

Session:

A LOOK AT BREEDING AND AGRICULTURE

Title:

The BASF Traceability Platform for Sustainable Cotton: "Seed2Sew"

Speaker:

Abhijeet (Abhi) Sharma, Platform Engineering: ESG via Blockchain,
Mobility & Integrations, BASF (Germany)

Conference Organisation

Faserinstitut Bremen e.V., Bremen, Germany. E-Mail: conference@faserinstitut.de

Bremer Baumwollbörse, Bremen, Germany. E-Mail: info@baumwollboerse.de



The BASF Traceability Platform for Sustainable Cotton: “Seed2Sew”

Speaker:

Abhijeet (Abhi) Sharma,
Platform Owner: *ESG* via Blockchain,
Mobility & Integrations, BASF

Blockchain Platform



**Picture represents Field2Fashion Show, Blockchain Launch 2022
Clothes designed by our partner Athos Pallas and made from CSF cotton**





What is FiberMax®?

A global cotton brand (since 1997)

in European market for **25** years
(since 1999)
















FiberMax® Seeds

- 🚧 Wide range of **cotton varieties** with **better germination, vigor & stress tolerance:**
 - ▶ Early & medium early maturity
 - ▶ Adaptable to different soils
 - ▶ Disease tolerance (verticillium)
 - ▶ High yields in seed cotton and fiber

- 🏭 The **fiber** is of excellent quality and **strength, high gin turnout, length and high fineness** (even under less favorable growing conditions!)

Excellent spinning characteristics too!

Our sustainable cotton offer in a nutshell

	 <p>Certified Sustainable traceable cotton</p>	 <p>Regenerative cotton</p>	 <p>Local Sustainable Traceable & Transparent Garments*</p>
Programs			 <p>Seed2Sew</p> <p><i>* Min. 70% CSF Cotton in the final garment</i></p>
Services			 <p>Hyperledger blockchain</p>  <p>Spatial analysis</p>  <p>Life Cycle Assesment</p>
Certification			
			 

Data captured in real time by value chain partners using geospatial timestamps, biometric logins, embedded certifications...

Thrakika Gin

Facility Location: 12 LOTS | Facility Processing Steps: 2 PROCESSING STEPS | Facility Processing Units: 2 UNITS

Parcel Details - 39970

ID - Name	Name	Entity	Crop	Seeding	Harvest	Area	Promotion	Pagination
39970 - 612-542-0292--	612-542-0292-008	5 Years-AEGHZ 0E0&DPOZ - 144298507	CFS Cotton	2018-01-01	2022-11-30	0.7723		250 - 312 of 312

Chart options

Map options

Bale: 025962

- Micronaire: 4.1 MIC
- Length: 30 mm
- Uniformity: 83.2 %
- ShortFiberIndex: 8.7 %
- Strength: 32.5 g/tex
- Elongation: 6.1 mm
- Brightness: 68.8 color
- Yellowness: 8.2 color
- ColorGrade: 51-3 color
- SpinningConsistencyIndex: 141 SCI
- TrashCount: 21 count
- Maturity: 0.84

025962

025943

025943

025943





What is FiberMax® CSF?

A label that means something!



Value Chain Partners within 250km radius

5 farmers in Komotini, Greece



FiberMax® Seeds



Ginning to remove seed



Fiber bales



Spinning fiber to make yarn



Weaving to make bolts of fabric



Dyeing and finishing to create smooth fabric



Cutting and sewing of final garments



70% Cotton garment



Thrakika Ekkokkistiria S.A.
Cotton ginning & trading



EXTRÊME
Knitwear Textile Manufacturers



Technology Partners:

➤ Bext 360, hyperledger platform

The Vision...



RE-USE ME
AS A BOOKMARK

#Seed2Sew Blockchain

#Seed2Sew Blockchain

Sourced responsibly by all the partners from seeds to sewing the garment.

Scan to learn more.

The brand can take the blockchain data via an API and create a QR link...


Traceability Journey

CSF Cotton Garment
Lot Size:1 each


20
USD/each

Komotini, Anatoliki Makedonia Thraki
Greece

 See Retail View

 See Lot History

100% Transparency ▼


 Complete CO2 Tracking ▼

Proof Of Origin ▼



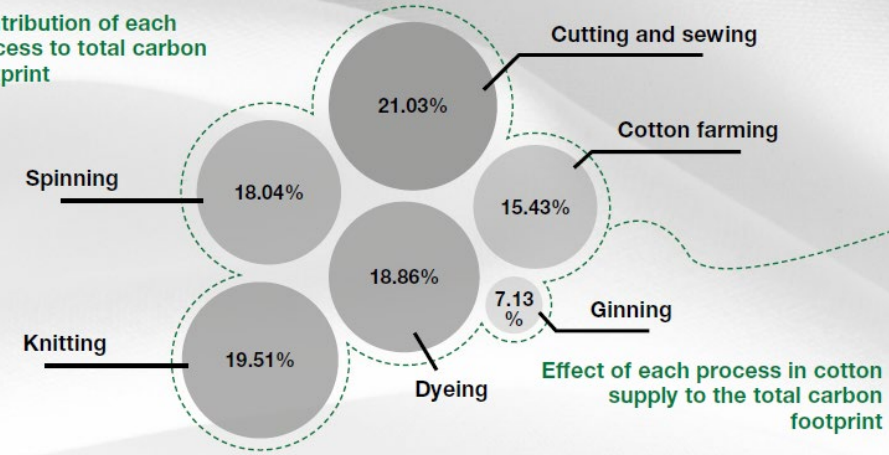
CO2 Overall/Garment

Proof of Origin Tests

 Proof Of Origin ▲

Proof Tests 463 tests Passed of
541 Total Tests
Locations Analyzed 356
Times Analyzed 858
Images Analyzed 330
Total Lots 1234
Originating from 31,747.0 ha

Contribution of each process to total carbon footprint



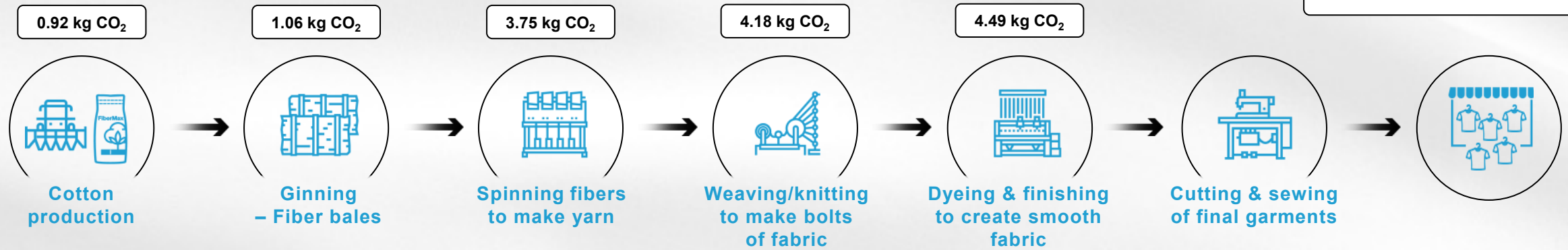
Final Product	kg CO ₂ eq / kg product
Seedcotton	0.92
Cotton lint	1.06
Yarn	3.75
Raw fabric	4.18
Dyed fabric	4.49
Finished garment	6.26

Source Aeiforiki 2023

 **BASF**
We create chemistry

 **FiberMax**
Cotton

Do you know the carbon footprint of a t-shirt? At BASF, we do!



***Equivalent to driving 25km
(16 miles) – source EPA**

Option to tailor our offer based on your needs

Sustainable or regenerative cotton production in EMEA

STANDARD

- ✓ Supply flexibility
- ✓ Optimized inventory manag.
- ✓ No GMO
- ✓ Farmer to ginner traceability
- ✓ Superior lint quality

Walking the talk – digital proof points

ADVANCED

- ✓ Supply flexibility
- ✓ Optimized inventory manag.
- ✓ No GMO
- ✓ Farmer to ginner traceability
- ✓ Superior lint quality

- ✓ LCA & PEF
- ✓ Baselines and improvements plans
- ✓ Digital tracking of practices and program management
- ✓ Value chain data aggregation and analysis
- ✓ UTH regen experts trainings

QR code straight to the farmer who created the garment

EXPERT

Go

Flex

- ✓ Supply flexibility
- ✓ Optimized inventory manag.
- ✓ No GMO
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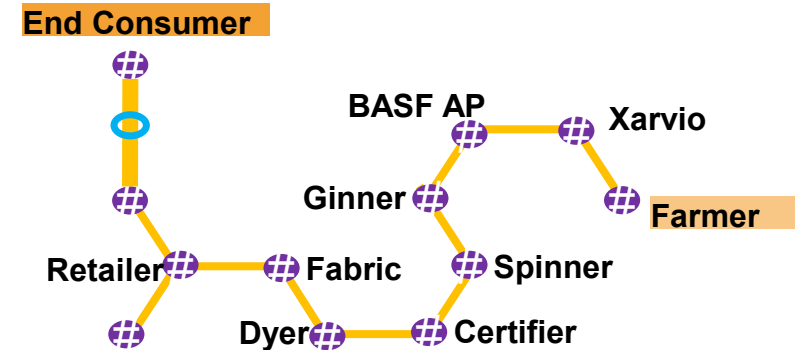
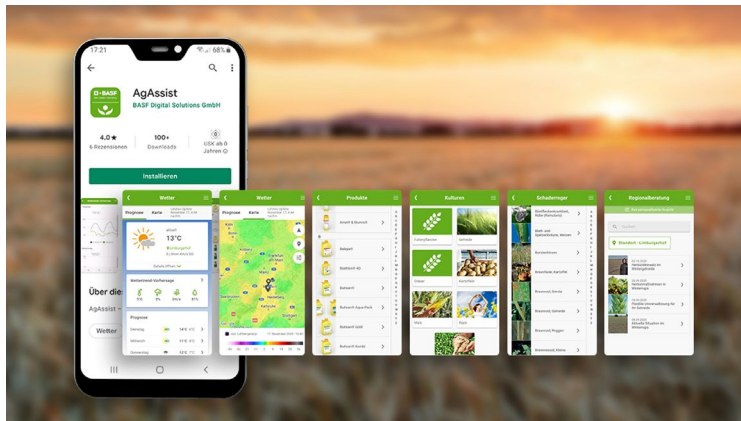
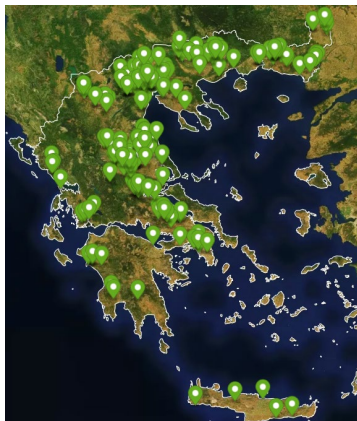
- ✓ Blockchain integration
- ✓ LCA & PEF peer review
- ✓ Remote monitoring of regen practices
- ✓ No greenwashing – full transparency of regen farming
- ✓ Superior customer sustainability experience

Why chose FiberMax® CSF, CSF+ or Seed2Sew?

1. High **quality** ethical and **traceable cotton** with CSF Program
2. **Seed2Sew Blockchain** platform suitable for Brand blockchain plug-in
3. **Regenerative Program** farmer enronlemment through **CSF+**
4. **Farmer transition** enablement & plan definition
5. High quality measurement of cotton **Footprint**
6. **Certifications**
7. **Carbon Farming Programs**
8. BASF expertise for SBTi **Scope3 plans**

Designing for Scale & Collaborations: A Network for a positive cause.

- Only blockchain that **addresses the Farmer Specific challenges**: Can connect with Farmer Management solutions, interoperable with other systems and significantly lowered costs with scale.
- A patented (pend.) **TRIAD Blockchain Structure**: zero emissions, open source, permissioned, interoperable
- Expansion using App + Distributed Organization Setup with smart contract.
- Network effect: Can connect with other chains



Business Partners



Technology Partners



Media Coverage

[BASF Agricultural Solutions' blockchain platform](#)

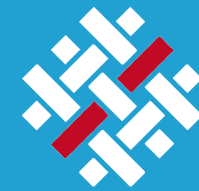
[BASF hosts roundtable on cotton at UN - Textile Technology Source \(textiletechsource.com\)](#)



Cotton Farmer Delegation, United Nations, New York September 2023



We create chemistry



FiberMax[®]

Cotton