



# Pioneering sustainable materials

September 2024

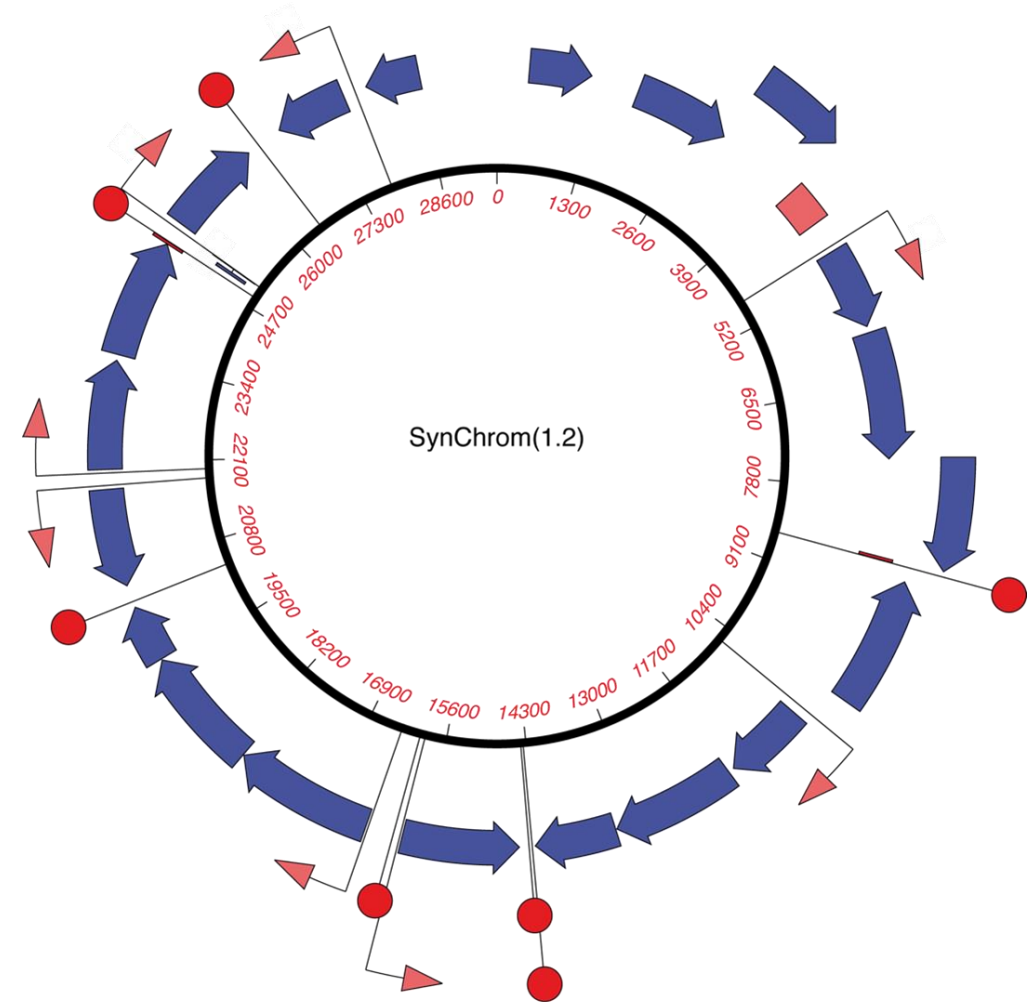


Co-funded by  
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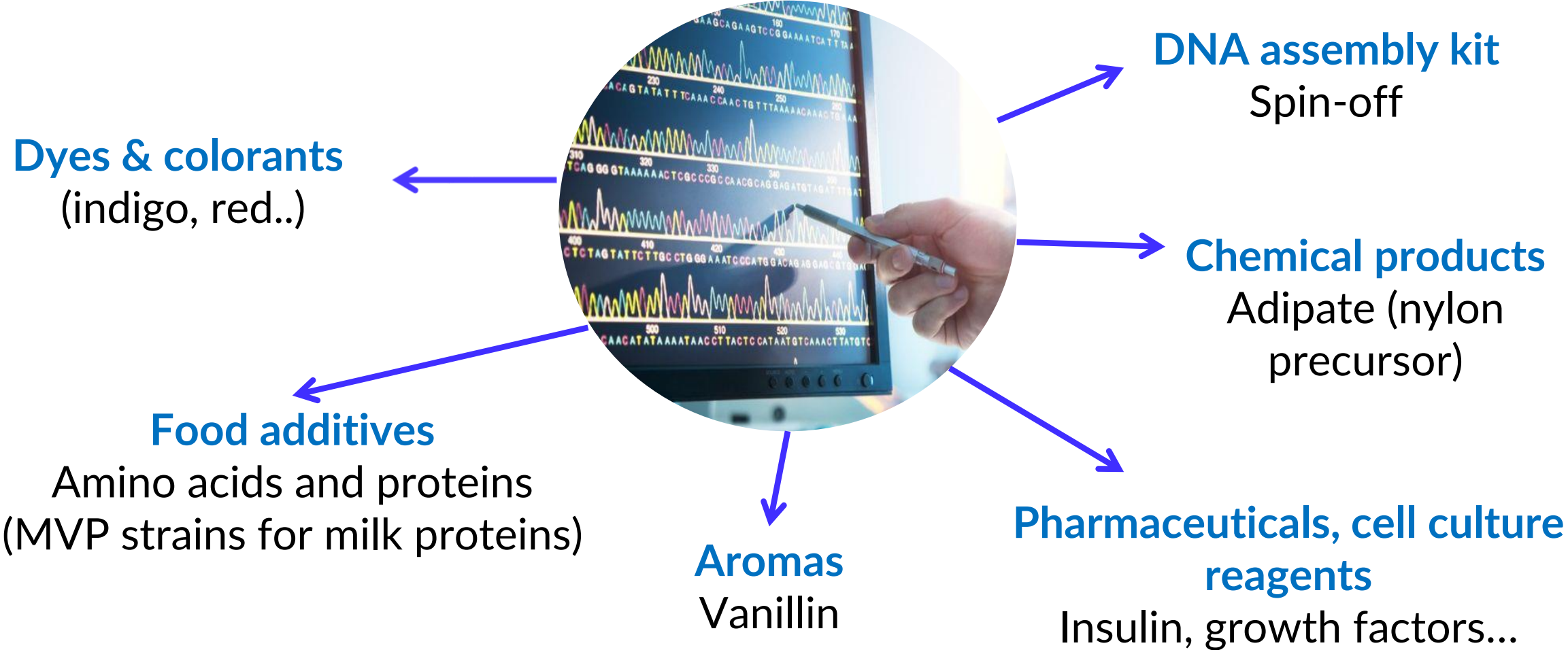
# Our technology – synthetic genomes

Our technologies enable us to **rapidly** and **cost-effectively** construct robust industrial strains that are :

- Extremely Stable
- Expression-Optimized
- Antibiotic-free
- Modular (can be rapidly re-purposed for new products)



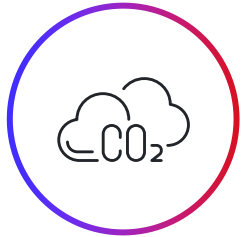
# One technology – Many potential markets



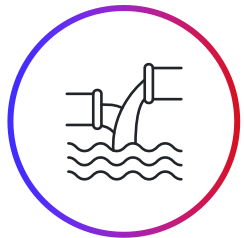
# The fashion industry is hurting people and the environment...



**2<sup>nd</sup>** most chemically intensive industry



**8%** of global CO<sub>2</sub> emissions



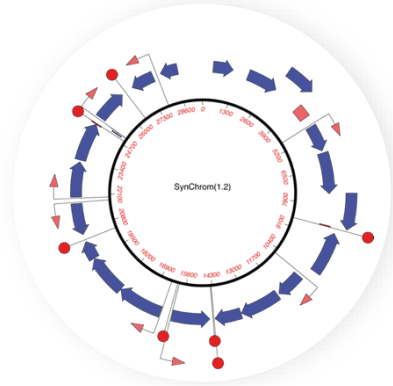
**20%** of the world's fresh water pollution



... What's new is that consumers are now asking for sustainability

# Our solution : eco-friendly, bio-produced dyes

## Synthetic Genomics Platform



Our disruptive Synthetic Genomics Platform enables us to make strains 5X faster and 10X cheaper than the current state of the art

## Biomass as feedstock



We extract sugars from waste biomass for use as feedstock in fermenters.

## Fermentation



We developed low-cost fermenters and optimised fermentation methods that are easily scalable.

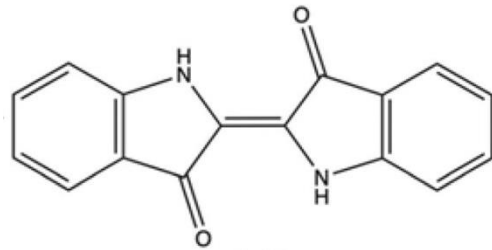
## Downstream process



We have defined efficient methods for separating dye from biomass.

Synovance offers an integrated solution from genome design to final product

# Our first product: bioproduced indigo



Indigo made by bacteria



- ✓ Identical to synthetic indigo
- ✓ Chemical free
- ✓ 10X less CO<sub>2</sub> emissions
- ✓ Plug & Play : no process changes
- ✓ Same performance as synthetic (cotton, polyester, plant leather, rPVB)

# Follow-on products : many opportunities

Cosmetics, Food and Pharma  
(proteins and chemicals)



## Other dyes in pipeline

### Bio-red

Pigment with  
anti-inflammatory  
properties

## 4 other dye colors in research phase

### Bio-Azure

(coming)

### Bio-Pink

(coming)

### Bio-purple

Pigment with  
anti-microbial  
properties

### Bio-Green

(coming)

# An experienced, diverse and complementary team



**Brian Jester PhD**

Co-Founder, CEO & CSO

>30 years of academic and industrial experience

Expertise in genetics, molecular biology, biochemistry, fermentation, engineering and process development.

Previous entrepreneurship and team leadership experience



**Efi Lioliou PhD, HDR, MSc HEC**

Co-Founder, COO & Sales

>20 years of academic and industrial experience

Expertise in Life Sciences  
Mentor in deep-tech accelerator CDL (Paris)

Project management and team leadership experience



**Olivier Fouques MiM Essec**

CFO

>22 years of CFO & financial management experience

Managed multi-functional teams up to 35 staff

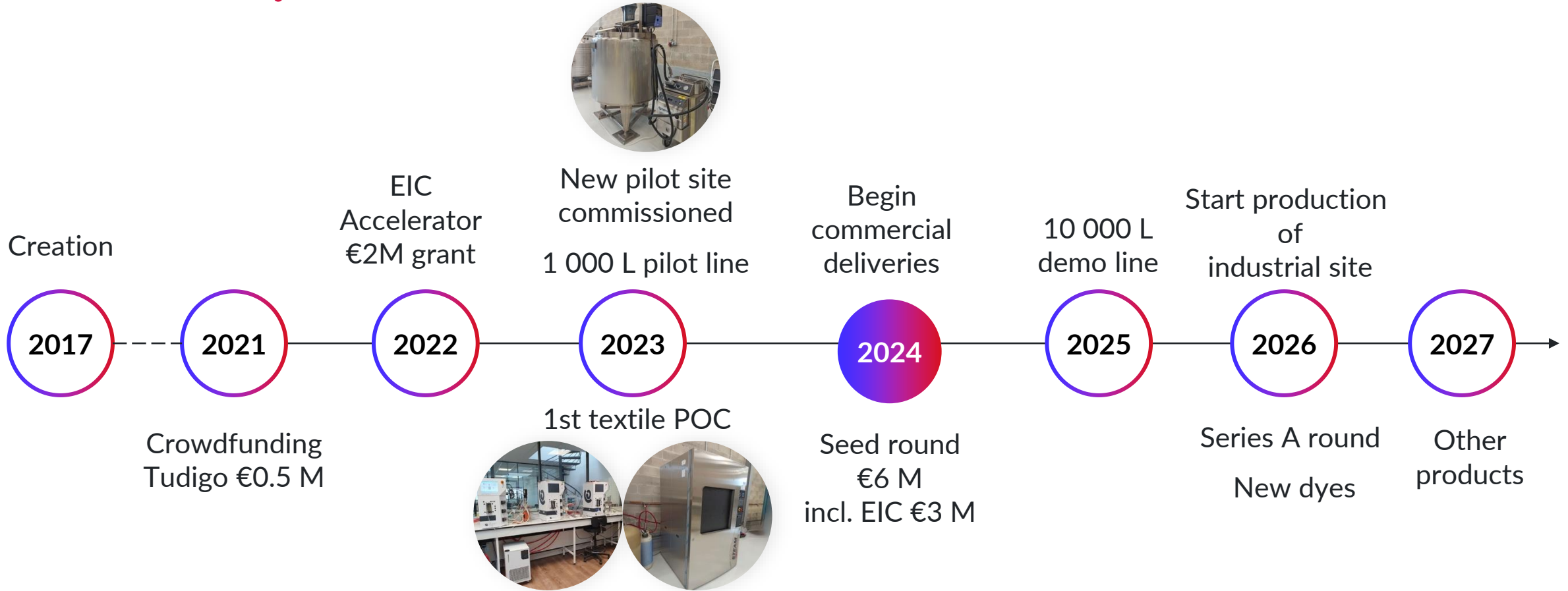
Previous entrepreneurship experience



## 13 FTE – 9 nationalities



# Roadmap



# Eurostars project: ECOCHROMA

Development of novel dyestuff: Recycled PVB resins + bioproduced dyes

## Partners:

- Synovance, France (lead)
- Ondytec, Spain
- Textil Valor, Spain

Project: €1.2M



# Our sponsors

## Investors



EIC  
Investment Fund



## Patent

1 PCT patent  
in National Phase

## Accelerators & Awards



Co-funded by  
the European Union



LVMH





# Thank you !

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