

Make it Better

Innovativons in Sustainability



Prof Troy Nachtigall
@troykyo



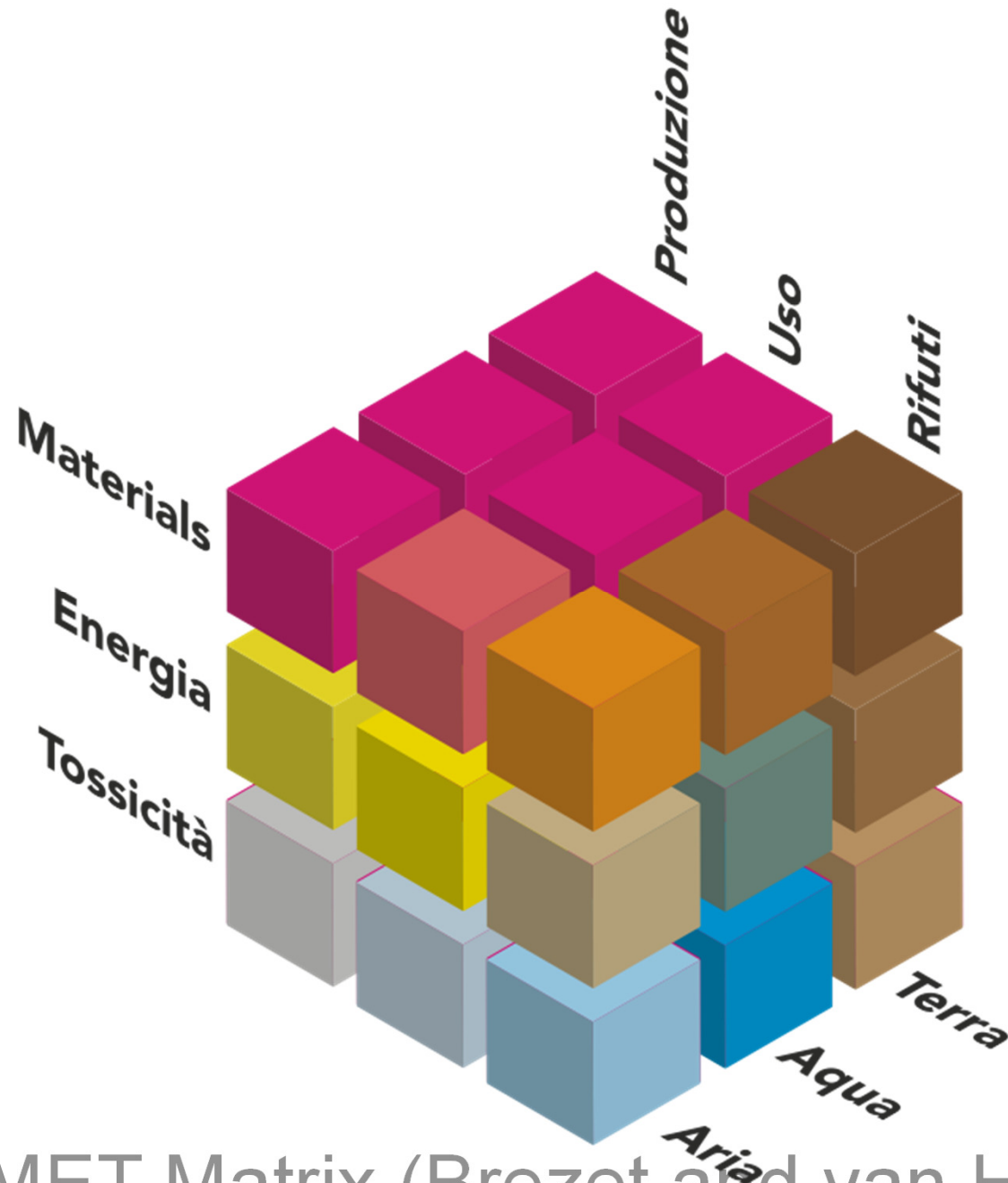
MET

**(Materiale, Energia,
Tossicità)**



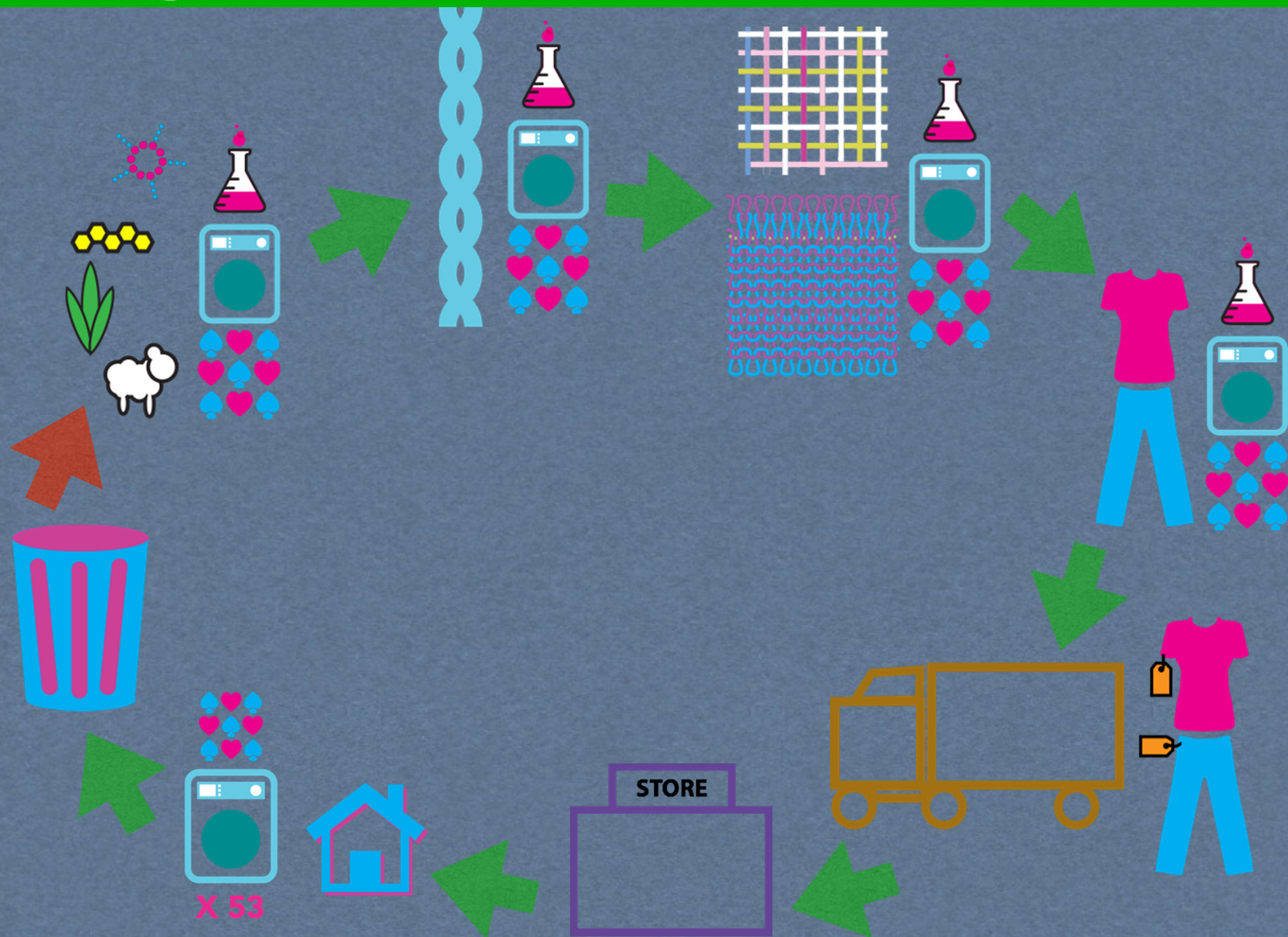
	Produzione	Uso	Rifuti
Materials			
Energia			
Tossicità			

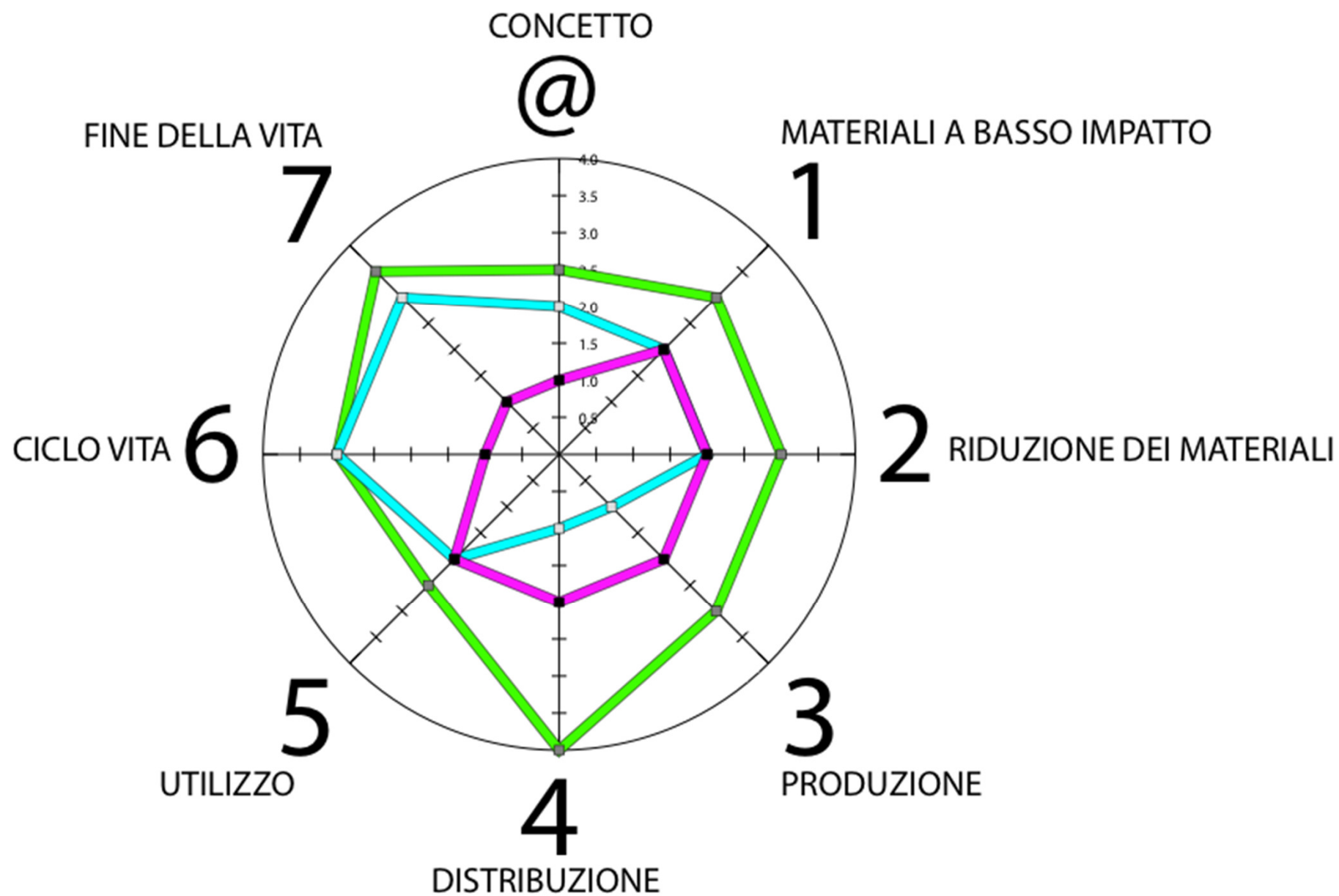
The MET Matrix (Brezet and van Hemel,
1997)



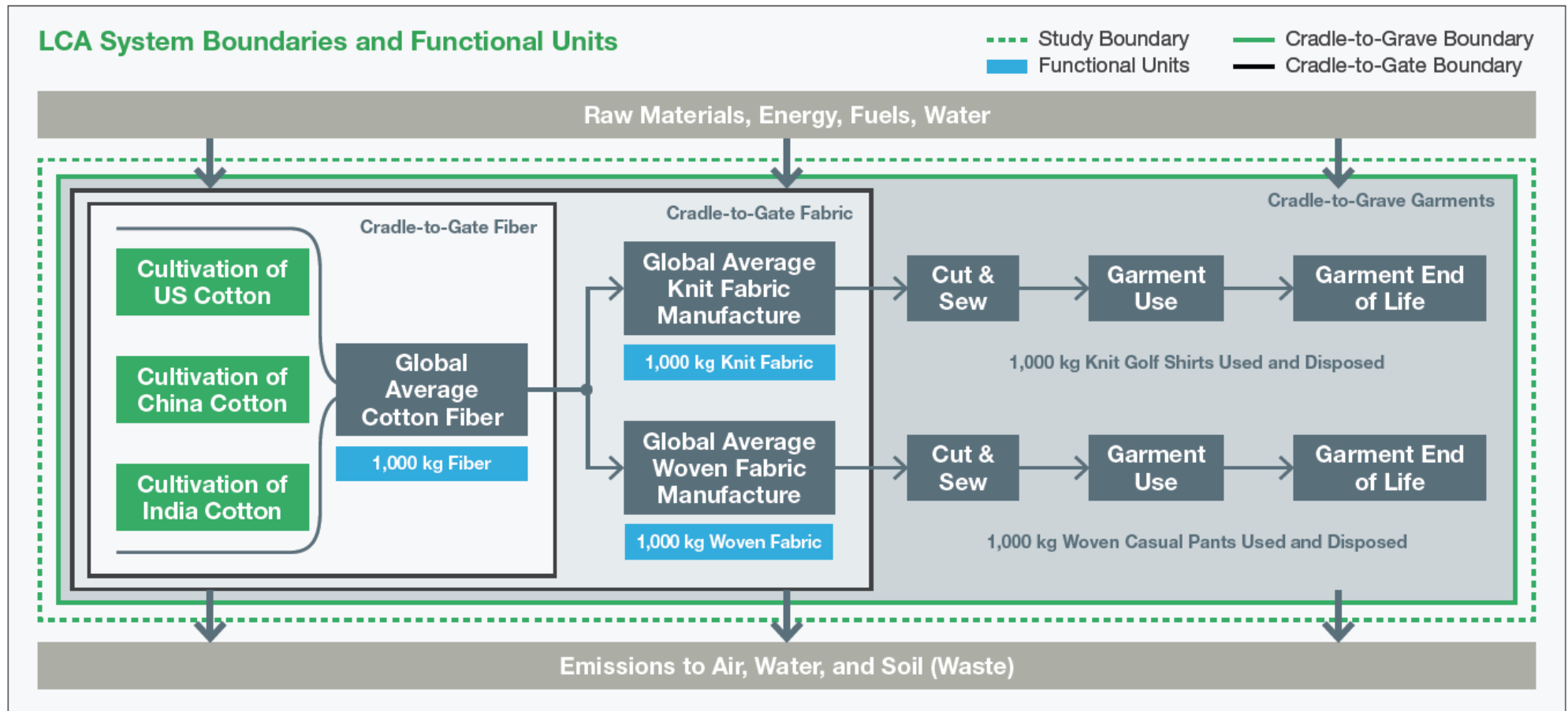
The MET Matrix (Brezet and van Hemel, 1997)

Eco Design :: Troy Nachtigall





Cotton e



Please note that the details of this Challenge are no longer open. This challenge is under evaluation and is no longer accepting new submissions. You can:

- Browse for a new Challenge in the [Challenge Browser](#)

Share This Challenge



3D Printing with Cotton Fiber

TAGS: Physical Sciences, Chemistry, Engineering/Design, Clean Tech, Food/Agriculture, Ideation

AWARD: **\$7,000 USD** | STATUS: Under Eval | ACTIVE SOLVERS: 221 | POSTED: 1/23/14

The Seeker desires **proposals for 3D printing technology that use cotton fibers, or material derived from cotton fibers, as the printing material or substrate.** The Seeker is interested in **ways that cotton can be used with currently existing 3D printing technology, or a novel 3D printing technology that uses cotton.** A futuristic application would be for the printing of apparel or other products, i.e., where an article of cotton clothing can be printed, constructed, or formed directly on a 3D printer.

This is an Ideation Challenge with a guaranteed award for at least one submitted solution.

Source: InnoCentive Challenge ID: 9933198

Challenge Overview

3D printing is an exciting new technology trend that can have a huge impact on product manufacturing. Currently, there are limited materials that are compatible with 3D printing technology- the majority of 3D printing technologies use plastics or metal alloys as the printing materials. The use of readily available cotton fibers would allow for the production of 3D printed materials with a greater range of properties.

InnoCentive Trust Partners



We self-certify compliance with:

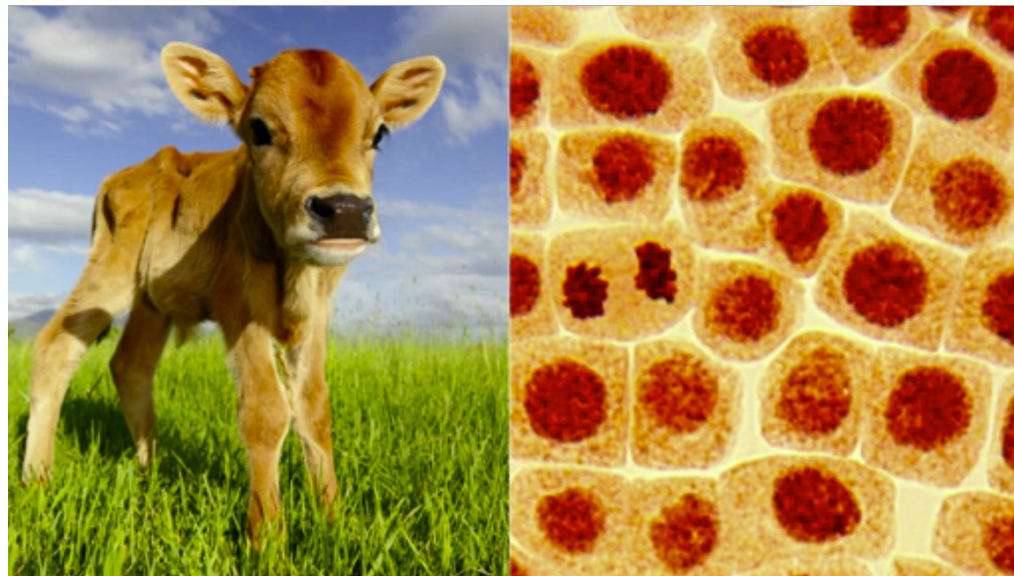


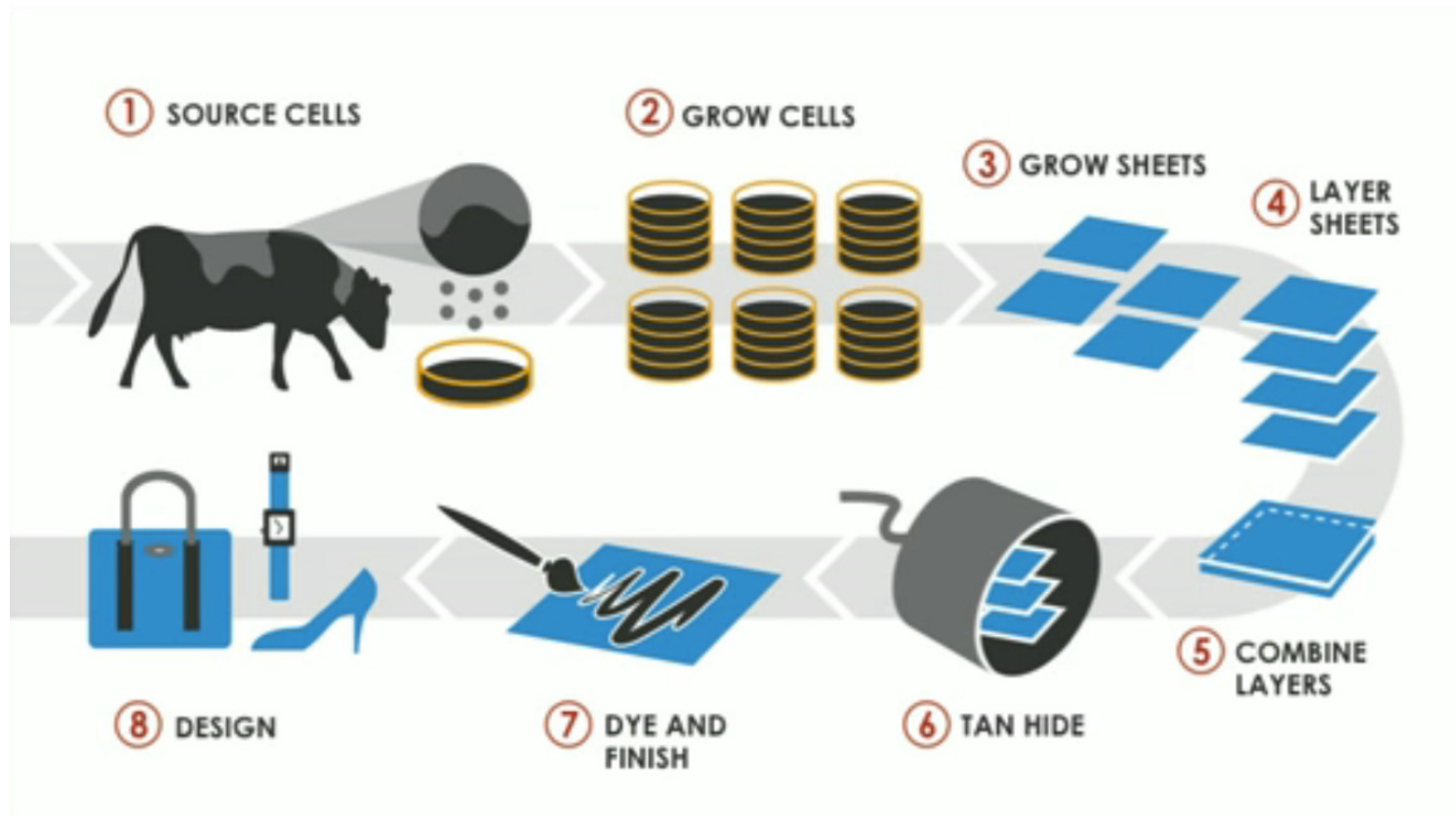
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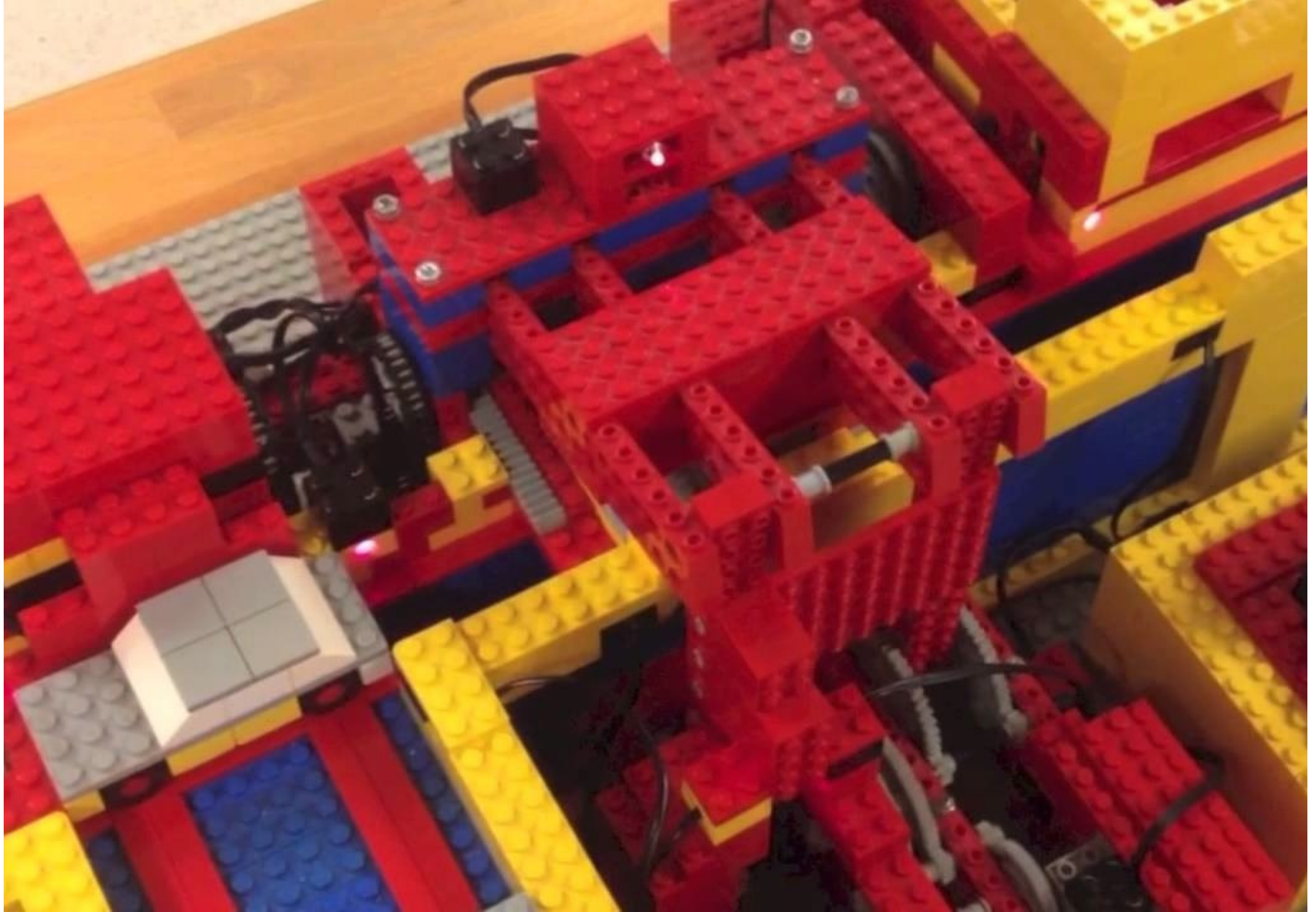
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Meat and Leather



- <https://www.youtube.com/watch?v=IQ0jwaYuAOY>

HIGH-PERFORMANCE FOR YOUR EVERYDAY LIFE

**NO ODORS**

This innovative garment absorbs completely all the odors releasing when you wash and dry. It will not soak up and smell after a few wears.

FAST DRYING

Absorbs sweat quickly and diffuses moisture efficiently.

UV PROTECTION

Provides UVA & UVB protection from the sun's damaging rays.

COMFORT FIT

Adopts your body's shape, moves like you do, and feels like a second soft skin.

A SECOND SKIN

Be different, express your style to the modern tribal society.



2ND SKIN

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S.CAFÉ

The innovative fiber S.Café is the base of 2ND-SKIN. It is an unique, environmentally proactive material which incorporates naturally odor-absorbing recycled coffee grounds into recycled polyester yarn. This breathable fabric allows excess heat to escape, enabling the wearer to stay cooler during your everyday life.



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