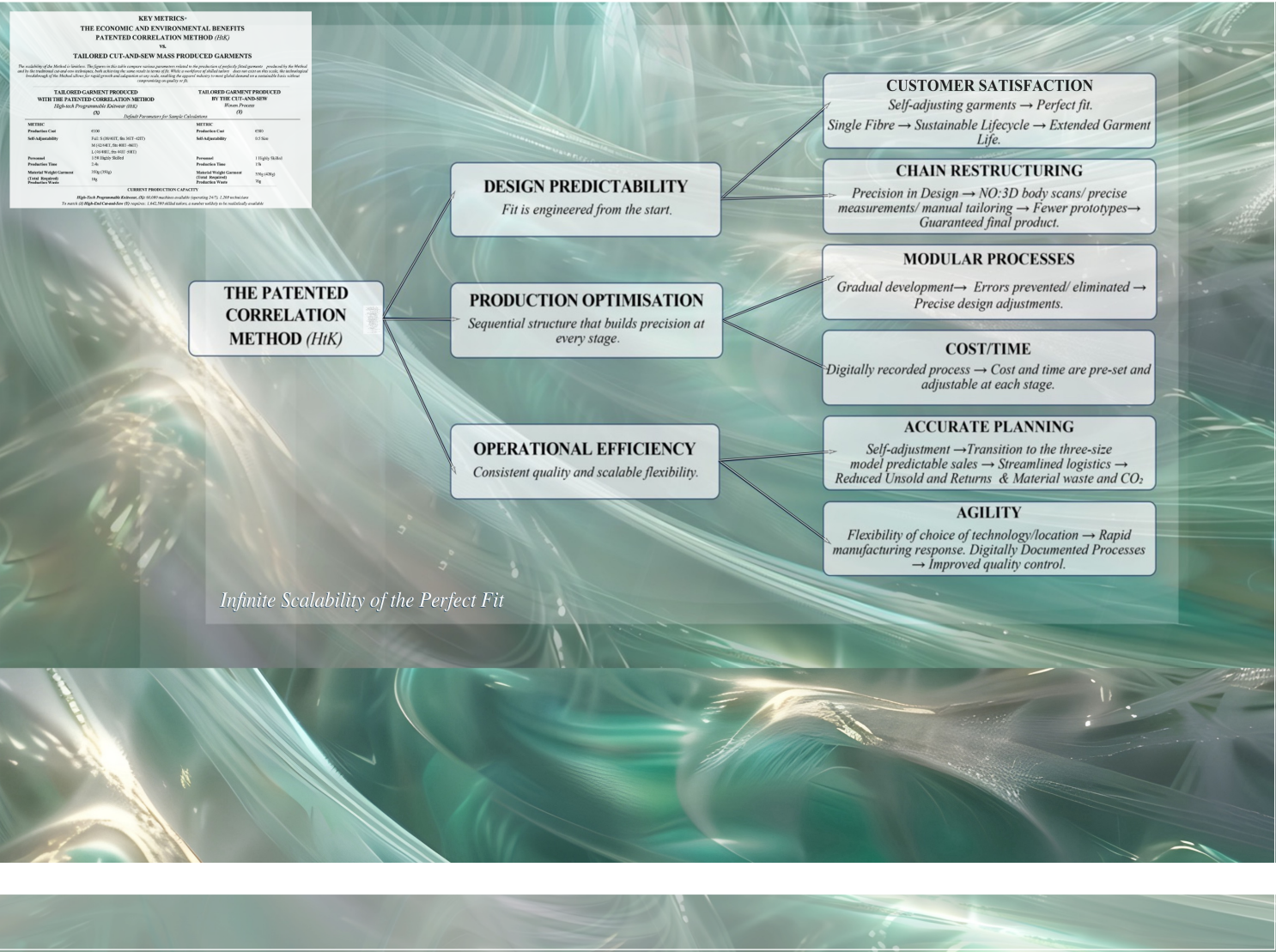# Unlocking Future Efficiency

From Fit To Function: A New Architecture of Fit, Circularity, and Precision in Apparel Production

THE PATENTED CORRELATION METHOD *(HtK)*

DESIGN PREDICTABILITY
Fit is engineered from the start.

PRODUCTION OPTIMISATION
Sequential structure that builds precision at every stage.

OPERATIONAL EFFICIENCY
Consistent quality and scalable flexibility.

CUSTOMER SATISFACTION
Self-adjusting garments → Perfect fit.
Single Fibre → Sustainable Lifecycle → Extended Garment Life.

CHAIN RESTRUCTURING
Precision in Design → NO:3D body scans/ precise measurements/ manual tailoring → Fewer prototypes→ Guaranteed final product.

MODULAR PROCESSES
Gradual development→ Errors prevented/ eliminated → Precise design adjustments.

COST/TIME
Digitally recorded process → Cost and time are pre-set and adjustable at each stage.

ACCURATE PLANNING
Self-adjustment →Transition to the three-size model predictable sales → Streamlined logistics → Reduced Unsold and Returns & Material waste and CO$_2$

AGILITY
Flexibility of choice of technology/location → Rapid manufacturing response. Digitally Documented Processes → Improved quality control.

Infinite Scalability of the Perfect Fit

NATALIYA DOLENKO
GENÈVE ™

Infinite Scalability of The Perfect Fit

PRESS RELEASE: SYSTEMS FOR SCALABLE PRECISION IN APPAREL
A Structural Transformation Through Programmable Fit, Longevity, and Circularity

NATALIYA DOLENKO™
GENÈVE

APPAREL MANUFACTURING INNOVATION: ENGINEERING & COMPUTER SCIENCE/APPAREL & TEXTILE ENGINEERING/GARMENTS

Unlocking Future Efficiency: From Fit To Function

The Patented Correlation Method *(HtK)* introduces a **system-wide redefinition**—not just a process improvement. It enables a new logic in design creation where fit, lifecycle and circularity are programmable, not reactive. It is a redesign of how the apparel system works—digitally, operationally, and commercially.

The Method creates an entirely new category of scalable, precision-controlled apparel manufacturing that delivers both technological and environmental differentiation that no existing method can match. It eliminates the need for 3D body scans, precise measurements or manual tailoring, replacing them with self-adjusting structural zones that deliver a perfect fit in real time.

For the first time, two previously incomparable systems can be evaluated head-to-head:

- **Self-adjusting, perfectly tailored garments** engineered with the Patented Method.
- **High-end tailored garments** produced by traditional cut-and-sew.

The Method achieves what was once considered unattainable: **mass-produced, luxury quality garments with perfect fit**, structural elegance and extended wear—without compromise. It streamlines production into a fully optimised system—eliminating size fragmentation, maximising material usage and minimising waste at every stage.

This is more than an alternative — it is a new mechanical standard by which the industry will be measured.

IMPACT

KEY METRICS	STRUCTURAL SHIFT
	Real-World Functional Change Beyond Percentages

1. **Production Time Reduction:** − 84.0%	**Fit Consistency**	**Self-adjusting structures ensure precise fit across 4 adjacent sizes. 3 size production replaces 8 rigid** size production. Coefficient of market expansion: 2.67**
2. **Production Cost Reduction:** − 73.7%	**Returns Reduction**	Predictable fit outcome due to self-adjusting structures—takes the uncertainty out of mass sizing.
3. **Skilled Workforce Reduction:** − 99.9%		
4. **Space Efficiency:** + 99%	**Design Efficiency**	Streamlined development with pre-engineered guaranteed fit.
5. **Unsold Rate Reduction Potential :** − 78.6%	**Production Speed**	Pre-programmed construction reduces complexity in high-tech knitwear. Seamless output. Minimal manual intervention.
6. **Inventory Reduction Potential:** − 62.5%		
7. **Return Rate Reduction Potential:** − 71.4%	**Inventory Optimisation**	Reduced size range optimises SKU complexity and eliminates overproduction.
8. **Adjusted Production Cost Reduction Including Unsold:** − 76.8%		
9. **Waste Reduction Including Unsold Garments:** − 82.4%	**Waste Reduction**	Material waste is drastically reduced through precision programming and no trimming waste to achieve a perfect fit.
10. **Waste Reduction per Garment Sold:** − 84.9%		
11. **Waste Reduction Potential due to Size Mismatch with Unsold Garments*:** − 85.3%	**Fibre Preservation**	85%+ fibre recovery with mono-material use. Suitable for re-use in high quality garments.
12. **Waste Reduction Enabled by Expanded Customer Reach:** − 85.3%		
13. **Electricity Use Reduction:** − 66.7%	**Circular Design**	Seamless, single-fibre garments enable second-life use, resale, and recycling without disassembly.
14. **CO₂ Emissions Reduction per Garment Produced:** − 68.4%		
15. **CO₂ Emissions Reduction per Garment with Sustainable Recycled Fibre for Luxury Apparel:** − 72.0%	**CO₂ Impact**	Reduced material use, minimised returns and shipping—combined system significantly reduce CO_2 emissions.
16. **Warehousing Space Reduction Potential:** − 80%	**Scalability**	High-quality, tailored garments can now be mass-produced combining perfect fit, quality and sustainability criteria.
17. **Warehousing Emissions Reduction:** − 81.6%		
18. **Fibre Recovery with an Increased Efficiency:** 54.5% +	**Economic Gains**	Returns, resale, waste, and development costs are no longer variables—predictable fit and engineered outcomes unlock scalable profitability.
19. **Luxury Fibre Waste Reduction:** 91.2%		
20. **Recycling Efficiency:** +54.5%		
21. **Reduced Recycling Costs:** − 77.8%	**Chain Restructuring**	Modular programming replaces fragmented processes. Designers begin with pre-validated structures; all stages are aligned for speed, precision, and consistency.
22. **Projected Increase in Gross Profit from Resale:** + 61.3%		
23. **Increase in Net Profit:** +235%	**Predictive System Logic**	Adds a programmable layer to apparel development—transforming the industry from reactive production to predictable system architecture that reshapes how apparel functions at scale.
24. **Potential CO₂ Emissions Avoided:** − 22.6 million tonnes of CO₂		

* Both metrics derive from the patented 3-to-8 sizing model. ** 8 rigid size production: refers to predefined shaping based on static sizes.