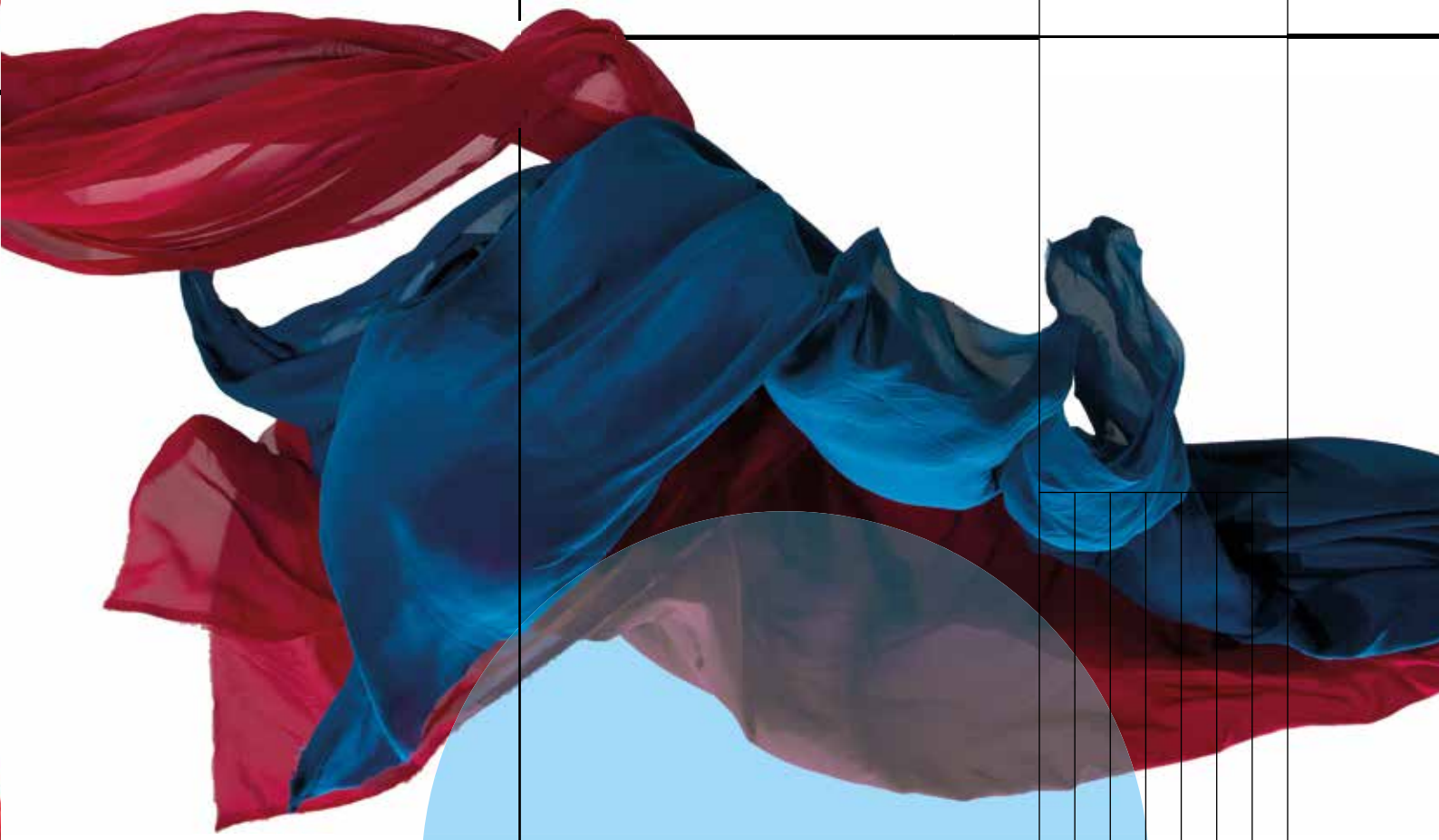
FUTURE PROFESSIONS

BRAZILIAN TEXTILE SECTOR 2020 2034



- Technological diffusion estimate
- New professionals
- SENAI Foresight Model

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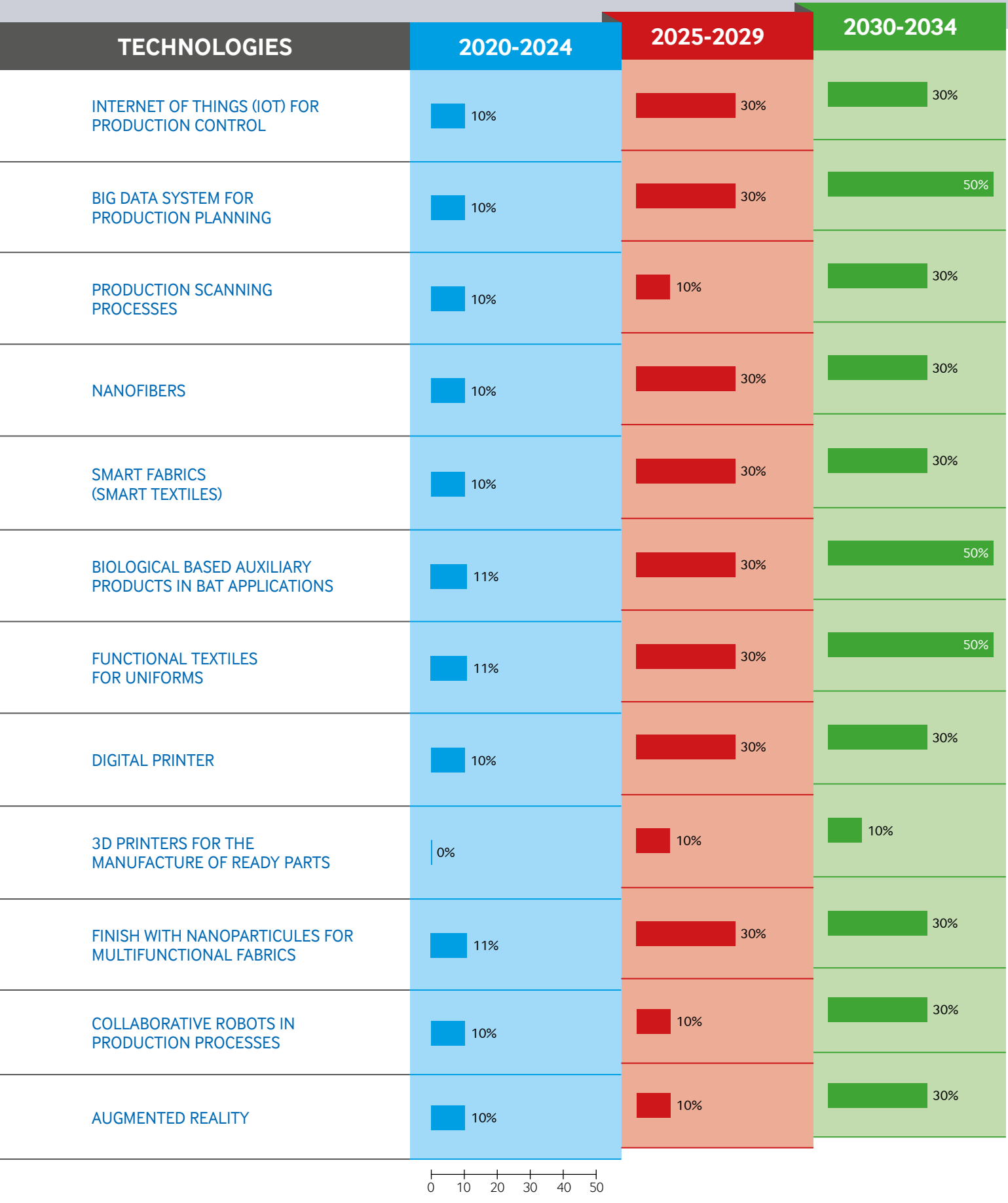
TECHNOLOGICAL DIFFUSION ESTIMATION ON BRAZILIAN TEXTILE SECTOR



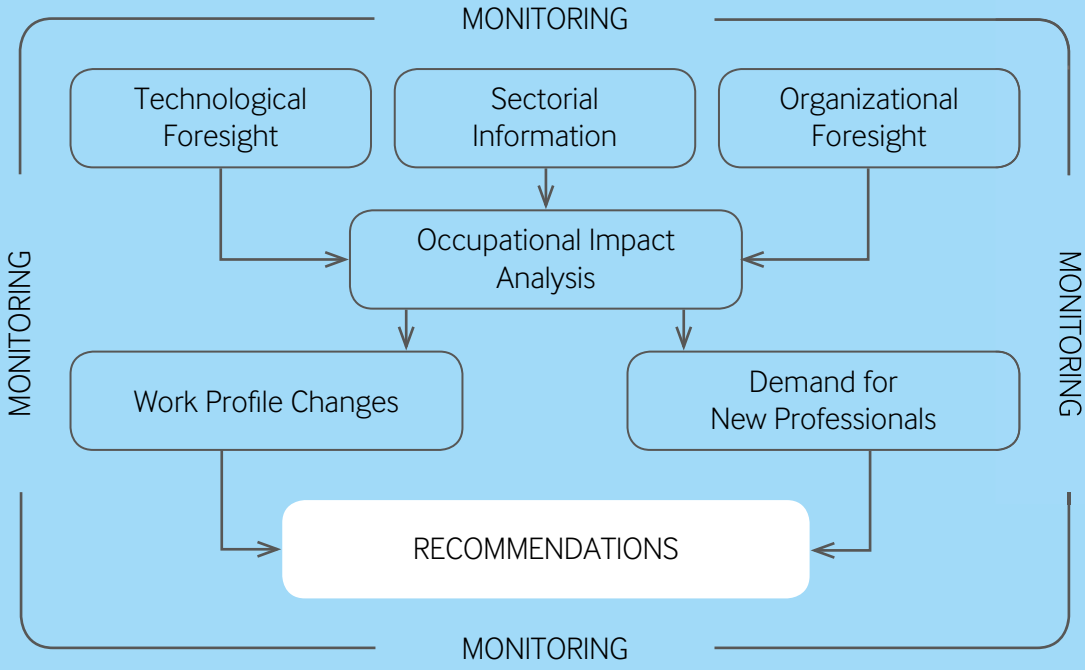
FUTURE PROFESSIONS 2020-2034 BRAZILIAN TEXTILE SECTOR

NEW PROFESSIONALS	BRIEF DESCRIPTION OF THE PROFESSIONAL'S ACTIVITIES	MAIN KNOWLEDGE	MAIN ABILITIES
SOFTWARE DEVELOPER FOR SIMULATION OF TEXTILE PROCESSES	Will develop software simulation processes and/or products of the textile area.	Computers and electronics; Textile Processes; Chemistry; Design.	Creativity; Programming.
TEXTILE BIOINFORMATICS SPECIALIST	Will develop, by means of simulations, products and/ or textile processes based on biosynthetic routes (biological routes).	Biology; Textile Processes; Chemistry; Physics; Design; Computers and electronics.	Creativity; Initiative; Imagination; Programming.
SPECIALIST IN TEXTILE NANOTECHNOLOGY	Will look for applications of nanoparticles for the various steps of the textile processes.	Biology; Textile Processes; Chemistry; Physics; Design; Computers and electronics; Nanotechnology.	Creativity; Initiative; Imagination; Programming.
SPECIALIST IN SUSTAINABILITY FOR TEXTILE PROCESSES	Will seek sustainable solutions for waste products in the textile chain.	Biology; Textile Processes; Chemistry; Physics; Design.	Creativity; Initiative; Imagination
SPECIALIST IN TECHNICAL TEXTILES AND NONWOVEN	Will develop nonwoven products and technical textiles, as well as its respective manufacturing processes.	Biology; Biotechnology; Textile Processes; Chemistry; Physics; Design; polymers.	Creativity; Initiative; Imagination.
TEXTILE TECHNICIAN SPECIALIST IN MECHATRONICS	Will plan, execute and maintain the integration of electronic, mechanical technologies of automatic control and computing in textile processes.	Computing science; Computers and electronics; Engineering and technology.	Equipment maintenance; Selection of equipment; Installation; Complex problem solving; Programming; Technology design.
TEXTILE TECHNICIAN SPECIALIST IN TEXTILE SURFACES DESIGN	Will develop structures and designs for textile substrates (yarn, flat fabric, knitted fabric and prints) and 3D printing.	Arts; Design; Technical standards; Textile Processes; Manufacturing process; Digital manufacturing.	Detail oriented; Trustworthyness; Cooperation; Digital fluency; Innovation; Creativity; Programming.
SPECIALIST IN TEXTILE FIBERS BIOTECHNOLOGY PROCESSES	Will develop biopolymers applied to textile sector.	Textile processes, Biology, Biotechnology and Chemistry.	Processes Monitoring, Operations Monitoring, Technology Project.
SPECIALIST IN BIOTECHNOLOGY PROCESSES APPLIED TO TEXTILE BENEFIT PROCESSES	Will develop processes of textile beneficiation for biopolymer fibers.	Textile processes, Biology, Chemistry, Textile chemistry.	Processes Monitoring, Operations Monitoring, Technology Project.
SPECIALIST IN TEXTILE PROCESSES CERTIFICATION	Will guide and monitor the processes of certification of textile products and processes.	Management, administration, technical English and Textile processes.	Copywriting, Text reading and understanding.
TEXTILE DIGITAL STAMPER	Will operate digital printer machines.	Textile Processes, computing and electronic.	Operation and control and monitoring of operations, operation analysis, programming, quality control analysis.

METHODOLOGICAL NOTE

The SENAI Foresight Model was developed to forecast the future needs of skilled labor in Brazilian industry. For this, it is structured in order to capture technological and organizational changes and their implications in the work market, professional profiles, and in the professional education system. The information generated by the Model is used in the discussions about updating and creating professional profiles in the National Sectorial Technical Committees of SENAI / DN.

The methodology is recognized by the OECD and ILO as one of the most important prospective tools for vocational training in emerging countries. The following is a general outline of the Model.



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