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----- Innovation

Innovation Strategy

Accelerating growth by combining in-house R&D with open innovation

At the Mitsubishi Chemical Group, a strong R&D capability is our cornerstone, but we define innovation much more broadly than this. We promote innovation by strategically combining in-house R&D with open innovation, including collaboration with academia, startup companies, corporate partners, and government agencies.

We emphasize four key points to further enhance the quality and speed of our innovation.

Strategic partnerships with startups around the world to accelerate innovation

The MCG Group creates opportunities for group-wide business growth through strategic investments and partnerships with promising startup companies worldwide.

Guiding principles for innovation

End-Market Focus Integrated innovation strategies driving an optimal balance of internal R&D and open innovation for each focus market Agile product development in collaboration with end customers to

- eliver value at speed
 Flexibility to meet the changing demands
- of key markets: today, tomorrow, and the day after tomorrow

More Efficient Processes

- Seamless transition between long-term research platforms and late-stage product development
- Experimental data platform to create a virtual research organization that transcends physical location

New Business Fields

New Digital Capabilities

technologies enabling large-scale and

Materials informatics to accelerate the

• Quantum computing and AI for the

information-driven chemical industry of

introduction of new materials and products

Next-generation computational

high-throughput simulations

the future

- Systematic creation of the next generation of high-profit, high-growth business clusters
- "Innovation Sandbox" to rapidly test the validity of new ideas beyond the scope of our current business

Overview of collaboration with startups receiving Group investment

Startup company	Specialty and scope of collaboration
AddiFab ApS	Specialty: Agile manufacturing solution combining additive manufacturing and injection molding for specialty products Collaboration: Joint development of additive materials Exit: Acquired by Nexa3D
OAIZ	Specialty: Plant-based proteins and products as a substitute for traditional food products Collaboration: Development of alternative protein ingredients
DIGI LENS	Specialty: Holographic waveguide display technology for next-generation Augmented Reality/Virtual Reality devices Collaboration: Development of plastic waveguides for AR/VR devices
Eridan	Specialty: 5G radio frequency communication technology leveraging gallium-nitride semiconductors for energy and spectrum efficiency Collaboration: Development of applications for gallium-nitride substrates in 5G communications networks
See Fluence Analytics	Specialty: Continuous monitoring and optimization of industrial and laboratory systems Collaboration: R&D efficiency and continuous process improvement Exit: Acquired by Yokogawa Electric
Lactips	Specialty: Water-soluble and biodegradable bio-derived polymer raw material substitute for film and plastic applications Collaboration: Development of green materials for customer needs
Lingrove	Specialty: Plant-based sustainable composites and materials to replace wood in automotive and industrial applications Collaboration: Development of bio-based composite solutions
Myoridge	Specialty: Custom-made, serum-free cell culture media for pharmaceutical, regenerative medicine, and food applications Collaboration: Material development for cell culture-related markets
PRIME ROOTS	Specialty: Koji-based food products as a substitute for traditional meat products Collaboration: Development of alternative protein ingredients and geographic expansion

Chapter 2

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Key Trends

MCG Group

Products and

Technologies

Innovation Strategy

Leveraging our technology advantage in key focus markets

We have developed our technology portfolio over many decades, and the resulting intellectual capital is a principal driving force of our Company.

As part of our transformation into a world-leading enterprise supplying specialty materials and solutions, the MCG Group will concentrate its technical strengths in relevant areas

applications

Semiconductor

and components

Display films and

materials

materials, equipment,

• Fab cleaning services

In addition to these technology platforms that embody our long-term competitive advantage, we will build on existing products and technologies, creating new innovations to strengthen our presence in each of our focus markets.

Carbon fiber

composites

• Water soluble polymers

High-performance

water filtration

MCG Group technologies and products matched to focus markets

Battery materials

Composite materials

Specialty polymers

and compounds



Al-powered drug

Biomodality-related

discovery

technologies

Biocompatible

materials

Construction materials

Additives for adhesives

and coatings

Façade design

materials

• Emulsifiers

Probiotics

Vitamins and nutrition

Gas barrier films

automation

Industrial processing

Oxygen combustion

technology

technology

films and membranes

Additive manufacturing

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