

INNOVATION DAY

ENERGIA 2024

21 de novembre | Barcelona

The future of self-tinting window films

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Future **chromes**



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Aleix Cararscull Marín
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Business Development
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Prof. Daniel Ruiz Molina
Founder & Advisor
ICN2 & CSIC

Main scientific partners



Tech. partners



Public projects funding (>0.5 M)

- NEOTEC
- SME instrument phase I
- Doctorats industrials
- Colaboración público-privada (ongoing)

Private projects funding (>1.2 M)

- Ophthalmics
- Smart glass
- Luxury

Strong IP protection

- 3 patents
- Industrial secret

Broad network

- Industrial partners
- >40 NDA signed

11.5 km

m²/year
of windows



Sunlight &
Sun heat
entry point

40%

Global energy
consumption



30%

Global CO₂
emissions



50%

Heating
Ventilation
Air-conditioning



SMART WINDOWS: SMART REGULATION OF SOLAR LIGHT TRANSMITTANCE

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STATIC



Adhesive films

- Low visibility

DYNAMIC



Voltage-based

- High cost (~ \$ 1000/m²)

Self-tinting (light, temperature)

- Low stability

Window market: \$ 100 BN

SW market size: \$ 4.6 BN, CAGR: 7%



ChromoGenics

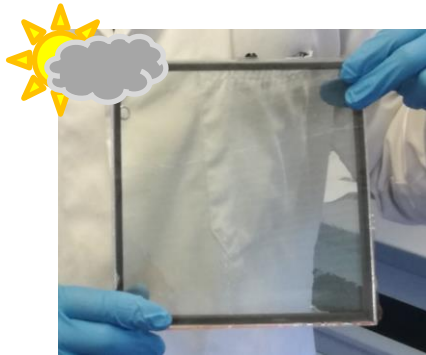


GENTEX CORPORATION



Future chromes

Light-responsive window films



Visual
comfort



Patented technologies

Light/Temperature-responsive window films



Thermal
comfort & energy-saving



10x Higher
stability



Self-regulating
Circuit-free



10x Faster
adaptation



Sustainable
manufacturing



Aftermarket
Adhesive films for all SW



Smart window films

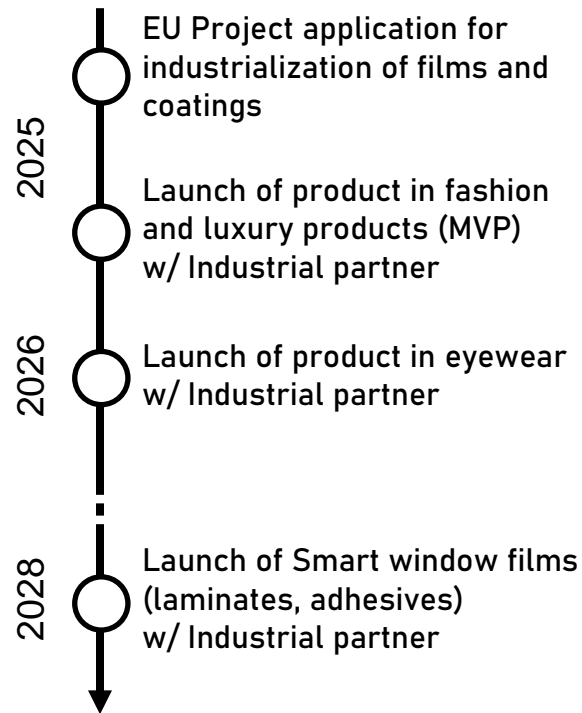
✓ Energy-saving



First POC



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The society has a Green Deal with the Future, Futurechromes faces it smartly



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