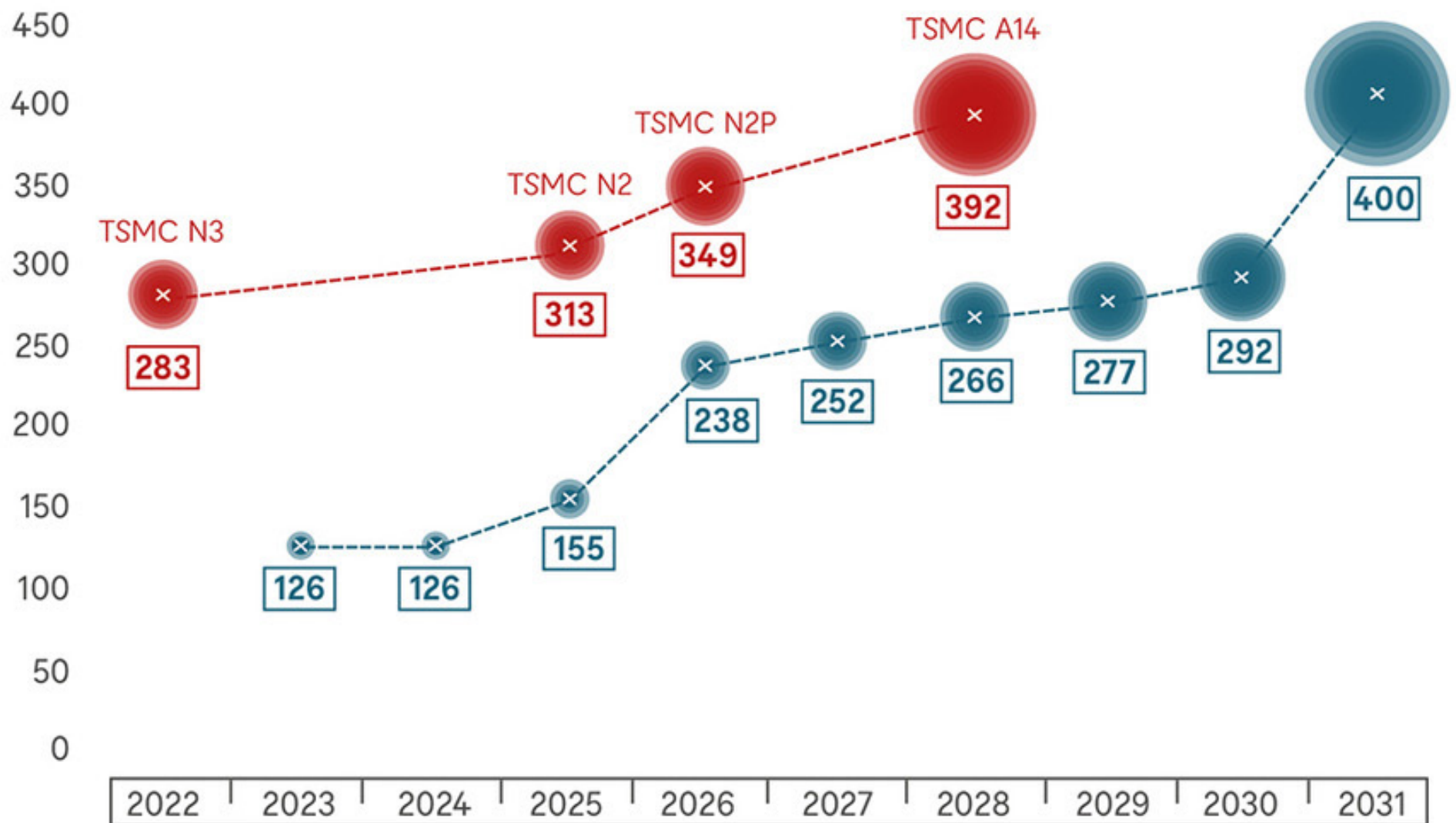


# Semiconductors: Huawei's Tau Scaling Law reframes chip scaling beyond nodes



Transistor  
density  
(MTr/mm<sup>2</sup>)

Transistor density roadmap: Huawei's Scaling Law vs. TSMC



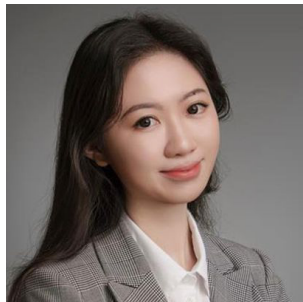
Source: Huawei ISCAS 2026 presentation, TechInsights

# Weekly Facts & Figures.

- **Tau Scaling Law:** Huawei is turning established system-level optimization and advanced packaging practices into a named “law” to set a primary direction for progress.
- **China’s post-sanctions roadmap:** packaging-led scaling as an alternative to pure transistor shrink.
- **New chokepoints:** If Tau becomes a credible path under lithography constraints, scrutiny may expand to packaging tools, substrates/materials, and design tooling.

**What  
This  
Means.**

"Huawei's Tau Scaling Law offers an alternative path to competitive chips, potentially reshaping global supply chains by easing dependence on a few leading-edge fabs."



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# Start the conversation.



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