

FDX™ Ecosystem Programs

Partnering for Growth

Offerings

- Tools (EDA)
 - + Ecosystem-specific modules that leverage differentiated FD-SOI body-bias features, built into industry leading design flows
- Design elements (IP)
 - + Complete library including Foundation IP, interfaces and Complex IPs to enable foundry customers to start designs with validated IP elements
- Platforms (ASIC)
 - + Complete 22FDX® ASIC offering
- Reference solutions (system IP, reference designs)
 - + System-level expertise in emerging application areas to speed time to market
- Resources (design consultation, services)
 - + Dedicated resources to support 22FDX® technology
- Product packaging and test (OSAT) solutions

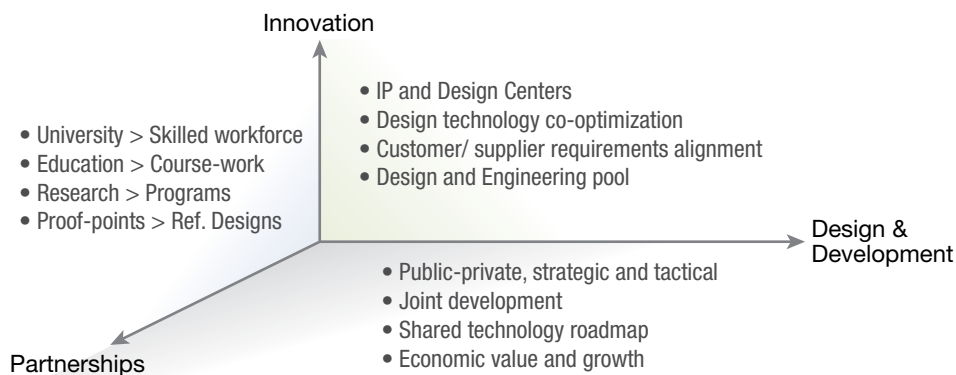
**Enabling
Connected
Intelligence**

Enabling faster, broader deployment of FDX™ SoC Designs

Designing ICs today has become one of the most challenging engineering tasks in the world. It's a unique combination of art and science, requiring state-of-the-art EDA software tools, design IP and services, mask services, and assembly solutions. GLOBALFOUNDRIES helps our customers create their world-changing products by partnering with leading providers in each of these areas. The GF Design Enablement team validates our partners' services and solutions with our silicon process technologies to ensure that they meet the highest standards.

FDXcelerator™ is a unique partner program designed to both accelerate 22FDX® system-on-chip (SoC) design and reduce time to market for customers. Together with GF and FDXcelerator™ partners' solutions, you can build innovative 22FDX SoC solutions with faster migration to FD-SOI from bulk nodes such as 40nm and 28nm. The FDXcelerator™ Partner Program creates an open framework to allow selected partners to integrate their products or services into a validated, plug-and-play catalog of design solutions. This level of integration allows customers to create high performance designs while minimizing development costs through access to a broad set of quality offerings specific to 22FDX technology.

GF's ecosystem collaboration strategy is centered around three fundamental dimensions of engagement: Innovation, Design & Development, and Partnerships:



Ecosystem Program Benefits

- Reduces time-to-market through accelerated SoC product design, while minimizing development cost and risk
- Simplifies and accelerates migration to superior FD-SOI from bulk nodes such as 40nm and 28nm
- Enables internal R&D efforts to be focused on creation of high-value technology
- Provides partners access to broad suite of customers
- Enables low-cost and rapid-prototyping for product and market validation, IP validation, device characterization, and design enablement via GF's Multi Project Wafer (MPW) Service
- Provides a robust platform for innovation: fast cycle-time from ideation to product

FDXcelerator™

FDXcelerator is an open and collaborative program with a diverse set of partners in the semiconductor value chain, committed to build innovative 22FDX®-based SoC solutions aimed to take advantage of the rapid and broad adoption of FDX-based solutions.



Ecosystem Collaboration in Chengdu & China

- New 12-inch fab in Chengdu to support growth of the Chinese semiconductor market and FDX demand
- Innovative partnership to support leading-edge semiconductor design and manufacturing in China
- Enables China-based partners to develop IP titles, and deliver Design Services from Chengdu
- Enables leverage of the full suite of FDX™ capabilities for Mobile, 5G, Connectivity, IoT and Automotive markets

Europe Ecosystem

- Expansion of the existing 12-inch fab in Dresden to support growth of the European semiconductor market and FDX demand
- Innovative partnerships on Design, IP and design-methodology for FD-SOI based solutions
- Accelerates time-to-market and lowers the barrier to entry for IC design and development
- Enables leverage of the full suite of FDX™ capabilities for Automotive, Industrial, IoT and emerging 5G markets

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