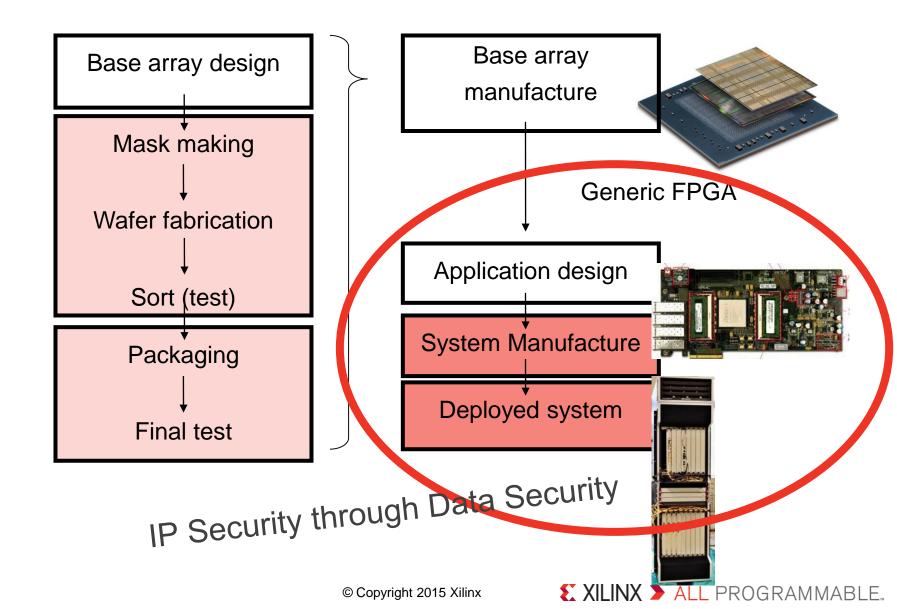
ALL PROGRAMMABLE



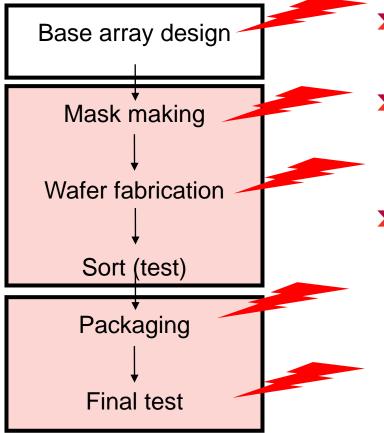


Hardware IP Protection

FPGA Manufacturing Flow



Risk and Trust in the IC Supply Chain



- Big companies can monitor this processes.
- There are many tools in place throughout the supply chain to thwart malicious actors
- Not happy? Do what we do: test it yourself!



SEU Temp spec SW IP No back door **Functional test** You Trust Me! Performance **Base Array** Config Reliability

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For the Student: How to Secure Integrated Circuit IP (Hint, remember information security!)

- > What are the physical equivalents of encryption and authentication?
- > Privacy: Obfuscated circuits and layout
- > Authentication: PUF is a password, not a MAC
- > Secure the design side.
- > Validate incoming IP before use!

