



Unleash PDKs with Open Standards

James Spoto



The Problem

- Poor productivity
 - Both for the library developer as well as the designer
 - Limits reuse and portability
 - Delays new technology and tool application
- Redundancy
- Poorer quality libraries and design
- The foundation of analog/RF design is fragmented and incompatible
- We are building a Tower-of-Babel
- We are stifling innovation
 - not too different from digital years ago



Is unified PDK possible?

- OpenAccess is a good first step
 - A unified data storage mechanism
 - Good physical data model & APIs
 - Need to be expanded to cover:
 - Electrical/physical parameters, parameter relationships, and design constraints
- Interoperable Pcells
 - Possible with current OA capabilities and other vendor efforts
 - Potential boost in development productivity with better development environments (Python, Tcl, etc.)
- Certain standards still required
 - To specify and implement PDK parameters
 - To specify design constraints

