

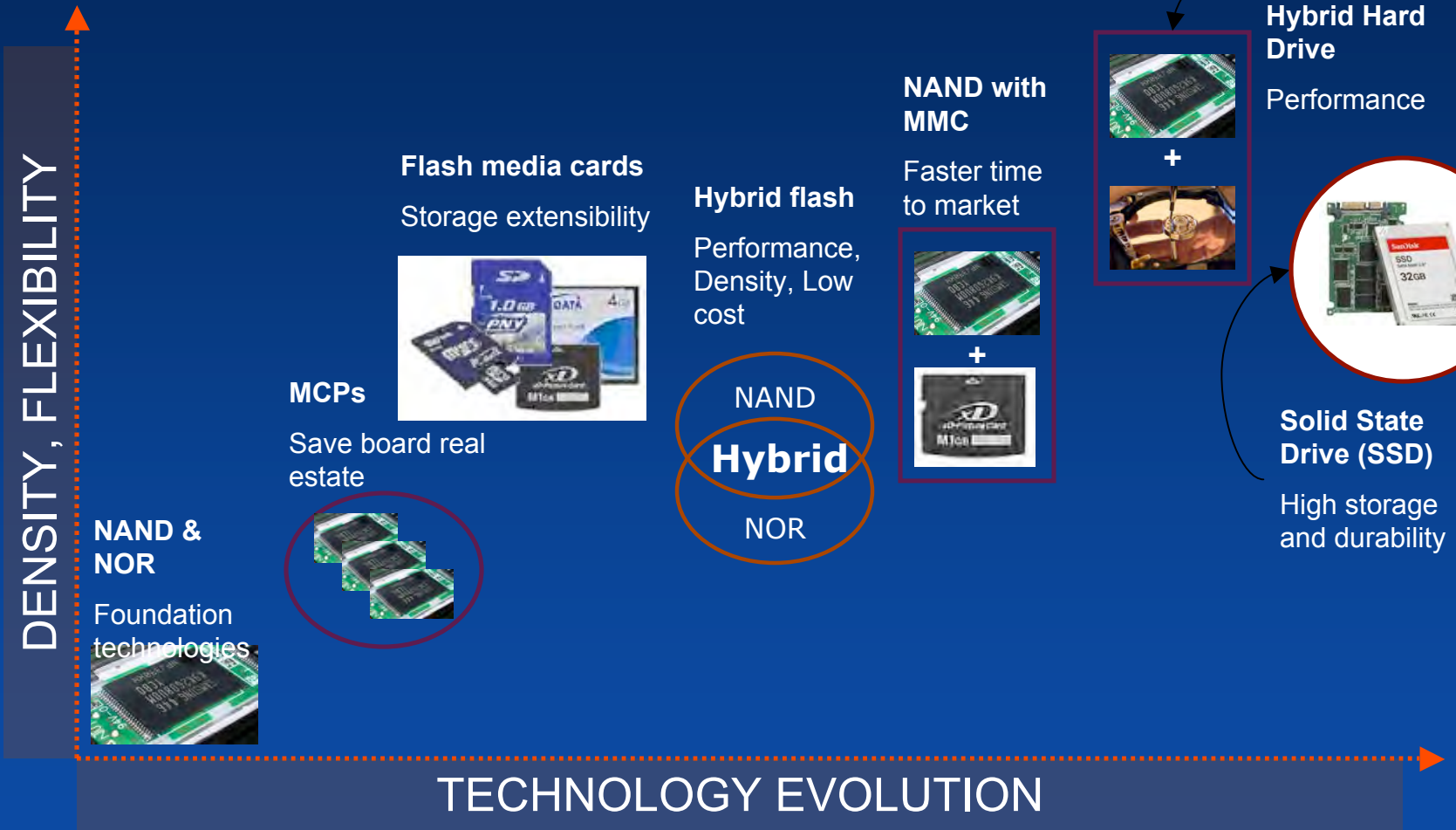


Software Support for Flash in Mobile Handsets



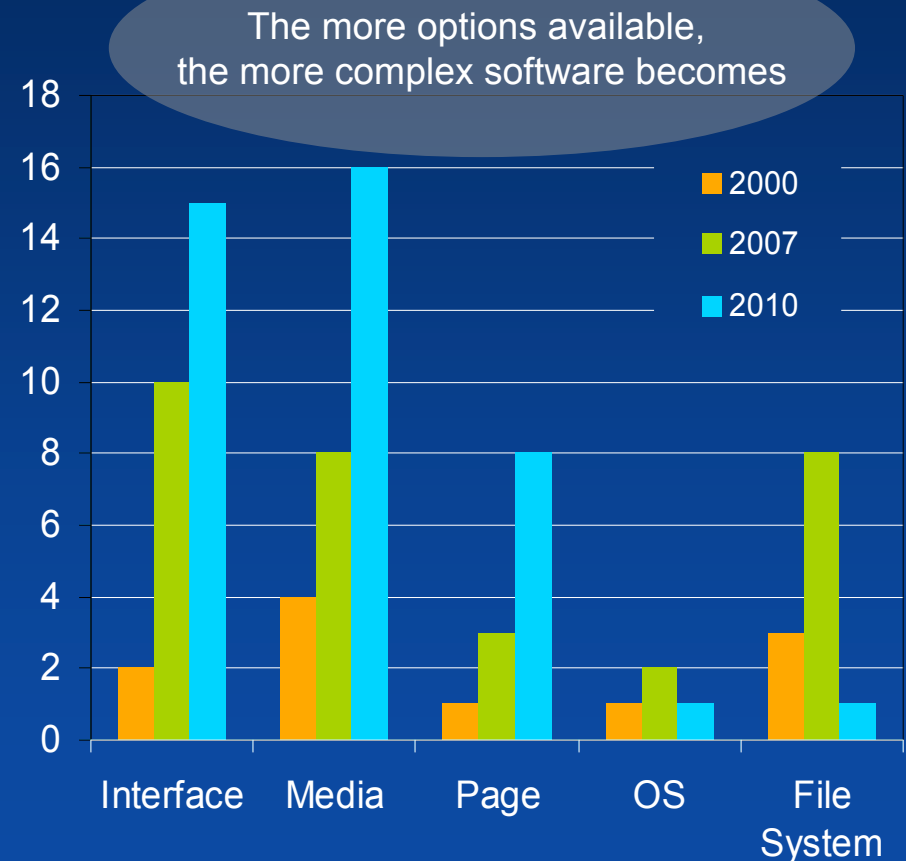
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Flash Storage Options



Software Complexity

- Interface complexity is increasing
- Support for multiple technologies
- Support for multiple page sizes
- Support for multiple operating systems
- Support for multiple file systems



Mandatory Reliability

- Device must always boot
- Paid for content cannot be lost
- Data must be secure
 - Secure erase features
 - New security protocols enforced
- Pre-paid calling cards
 - Removable card that must never be corrupted

Technology Alignment

Hardware

- Multiple flash technologies
- Security requirements
- Higher density

Software

- One driver supporting multiple flash types
- New APIs and features
- Larger page size support
- Shifting ECC support