



























Mobile TV

- ATSC-M/H mobile DTV for local broadcast
 - Approved in Oct-09
 - 1st test market in Washington D.C. Q1-2010
- Samsung
 - Added TV to Moment[™] Android smartphone
- iMovee Telly NAV
 - combined GPS + TV (?)
- Qualcomm FloTV
 - Subscription-based proprietary format
 - Re-using UHF channel 56 spectrum
- Telegent
 - Chips for analog mobile TV handsets
 - Regions where NTSC/PAL is available
 - Asia, Eastern Europe, Latin America, Middle East & Africa



mirasol® Color Displays

- Passive-reflective color display based on interferometric modulation (IMOD)
- Pixels are two nanometer-scale plates separated by an air gap equal to wavelength of light for R, G & B
- · Displays video and static pages
- e-book reader to be available 2H 2010



digdia

Video Everywhere & Anywhere

- "Thumb-sized" Mini DV
 - 640 X 480px @30fps
 - Built-in Li battery for 2.5 hour recording
 - Supports 16GB Micro SD card
 - Snapshot function
 - Low illumination, high resolution image with 2 Mpixels
- Wearable Sports cameras
 - Liquid Image: Scuba masks, Ski goggles
 - GoPro: helmets, surfboards, race cars







digdia

digdia

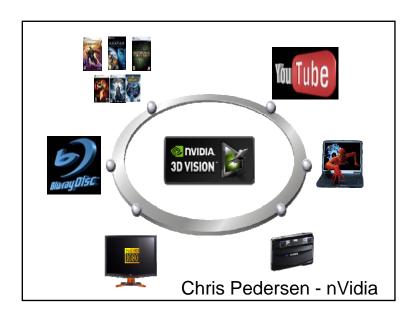
Some Really Sweet Analog

(with a little digital)



- The Thiel CS 3.7
 - Jim Thiel's "lifetime achievement"
- · Continuum Caliburn turntable
 - \$65,000
 - + Cobra tonearm (\$12,500)
 - + Castellon stand (\$24,999)
- Thiel + Olive
 - SCS4D IP-based Loudspeakers
 - Burr-Brown 24-bit/192kHz DAC
 - 200W Class D Power Amp
- Olive HD HiFi Server
 - 2TB ultra-quiet hard drive
 - 4-port Gigabit Ethernet (wired)
 - 802.11n (wireless)
 - Analog and USB Inputs



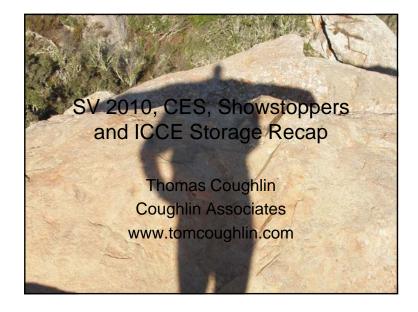












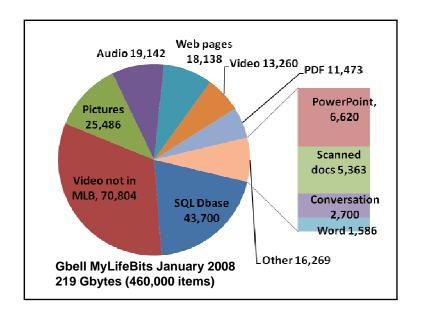
Storage Highlights

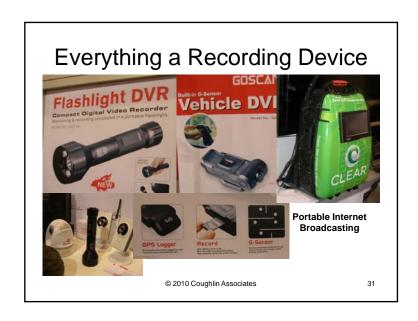
- Life-logs, e-Diaries
- Long term storage preservation
- Consumer metadata
- · Network storage and plug computing
- New high speed/capacity SD card formats
- USB products and USB 3.0 first products
- SSDs and external SSDs
- 3D on Blu-ray
- Professional video products

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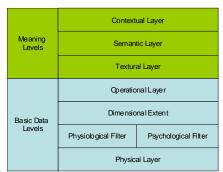
SIRF: logical container format

- Being developed by SNIA
 - For long-term storage of digital information
- Logical data format of a mountable unit
- Facilitate transparent logical/physical migration for long-term preservation
- Several implementations envisioned
 - Preservation models, storage interfaces, storage devices, etc.

Sam Fineberg, HP, Digital Forgetfulness, SV 2010 © 2010 Coughlin Associates 33

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Metadata Layer Model



- We need a consumer metadata standard that obeys 4 criteria:
 - Flexible
 - Scalable
 - Upgradable
 - Simple
- Plus something that can also integrate the professional standards

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Network Storage



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Plug Computers



Higher Capacity, Higher Speed SD Cards





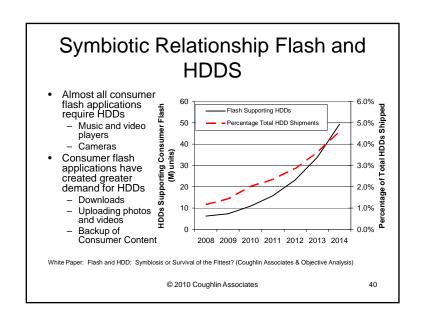
- · Last year the SD card association announced the SDHC format
- · This year Toshiba was showing product
- CE Devices using this available by 2011

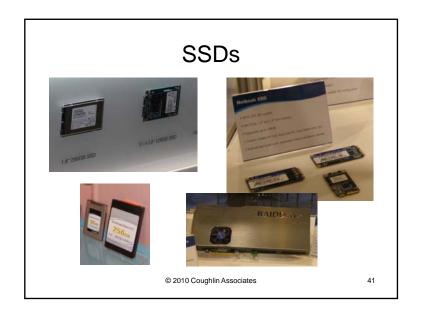
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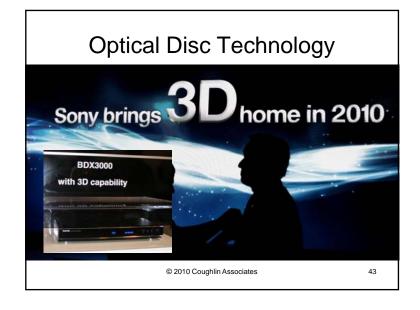












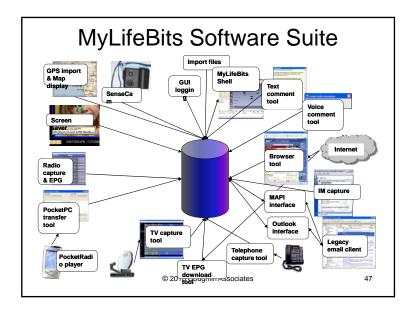




Appendix

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Preservation storage formats

- We can't predict the future
 - Systems will change, formats will change, systems will fail
- Preservation objects need to be
 - Self contained to ensure objects are complete
 - Self describing so software can interpret it
 - Extensible so it can meet future needs
- A preservation storage format must
 - Facilitate storage of preservation objects
 - Map to a wide variety of storage devices and technologies
 - Be resilient to failures and change

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Professional Video





Sony Stereoscopic Projector (what every home needs!)

iVDR for Content Capture and Editing

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Odds and Ends Ouraceu FUIFILM © 2010 Coughlin Associates 50