

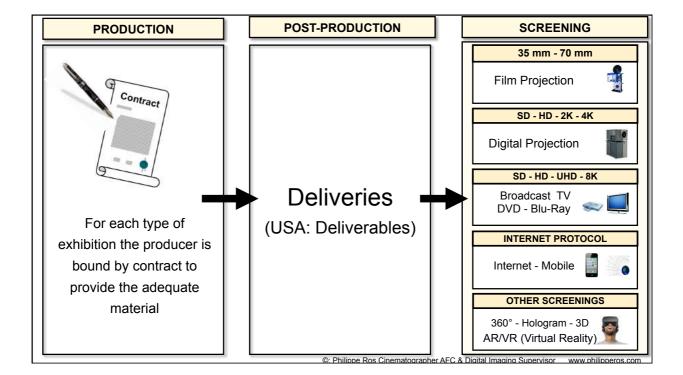
The digital intermediate

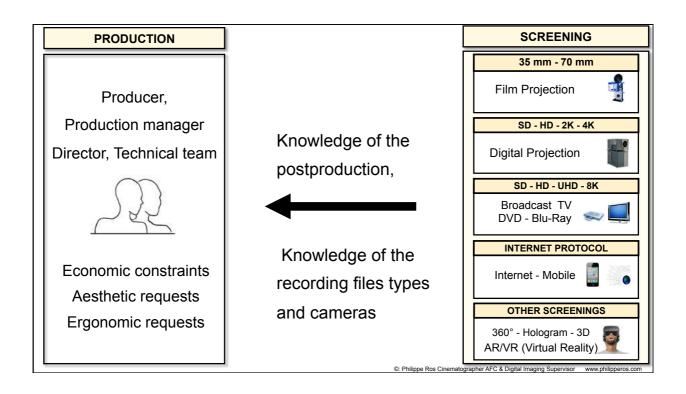
The digital intermediate

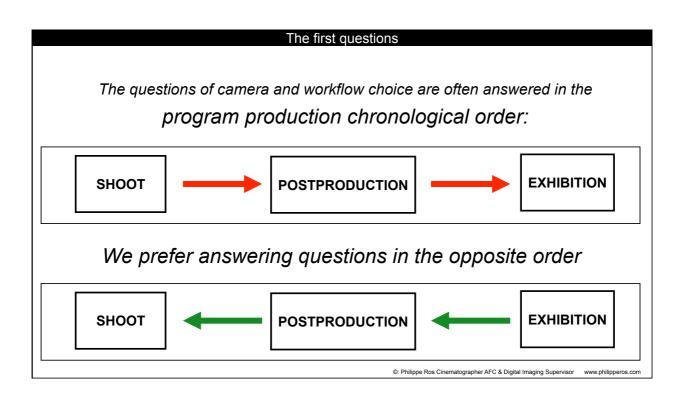
The process consists of the following components:

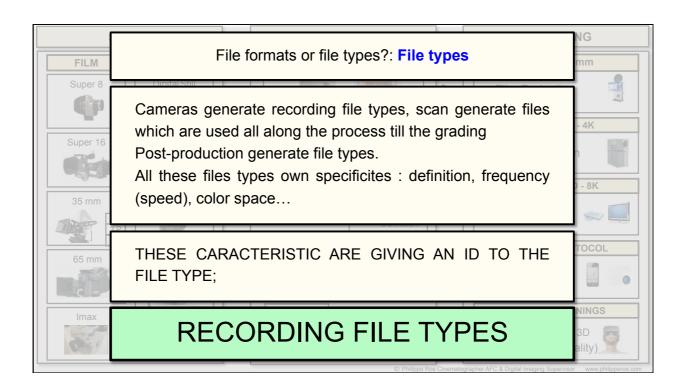
- Editorial Prep
- Scanning (when it's film)
- Assembling
- Color Correction
- Dustbusting
- Digital Opticals
- Special VFX
- Digital Previewing
- Recording
- Digital Deliverables

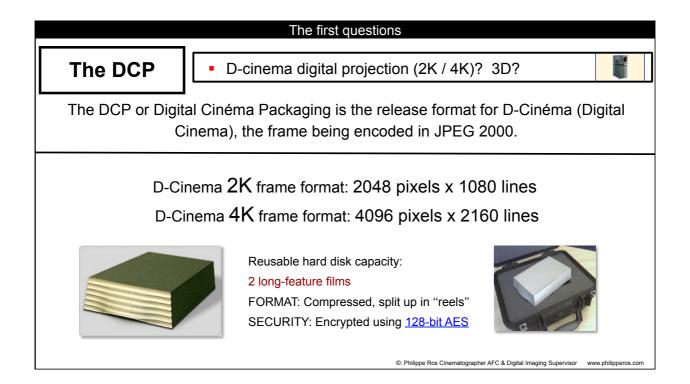
<section-header><text><image>

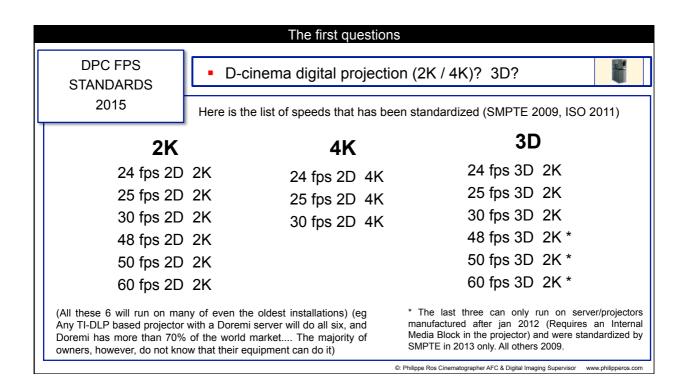




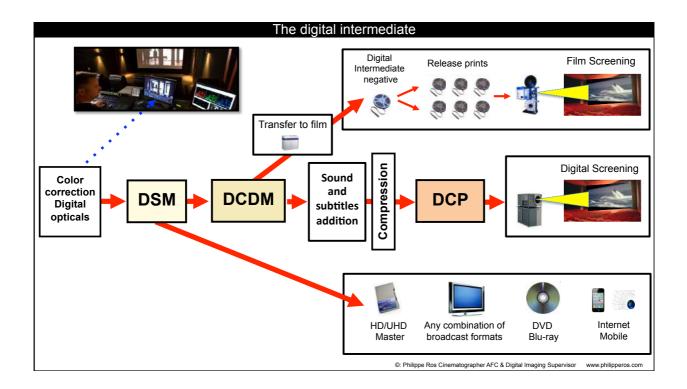


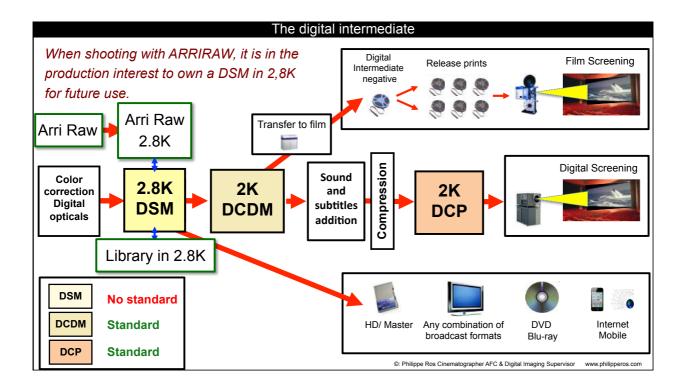






≼ 4K - Ciném	na 4096 x 2160 pixels	+
UHD - TV (Ultra F	HD) 3840 x 2160 pixels	
2K - Cinéma 2048 x 1080 pixe 	A 4K image contains	4K DCI





Some infos

- 1 bits
- 1 Byte = 1 Octet = 8 bits
- One disk of 320 Mo or 320 MB
- A feature film width : $1h \frac{1}{2} = 1,2$ To

Multiple of Octets						
Name	Symbol	Value				
Kilooctet	Ko	10 ³				
Mégaoctet	Мо	10 ⁶				
Gigaoctet	Go	10 ⁹				
Téraoctet	То	10 ¹²				
Pétaoctet	Po	10 ¹⁵				
Exaoctet	Eo	10 ¹⁸				
Zettaoctet	Zo	10 ²¹				
Yottaoctet	Yo	10 ²⁴				

Bitrate required to transmit one HD image

- 1920 pixels (L) x 1080 lines (H) x 3 (colour chanels) x 10 bits x 25 fps = 1,55 Gb/s
- 1920 pixels (L) x 1080 lines (H) x 3 (colour chanels) x 8 bits x 25 fps = 1,25 Gb/s

©: Philippe Ros Cinematographer AFC & Digital Imaging Supervisor www.philipperos

Storage device (Media)

STORAGE DEVICE - MEDIA

WHAT IS IMPORTANT TO KNOW ABOUT MEDIA PERFORMANCES

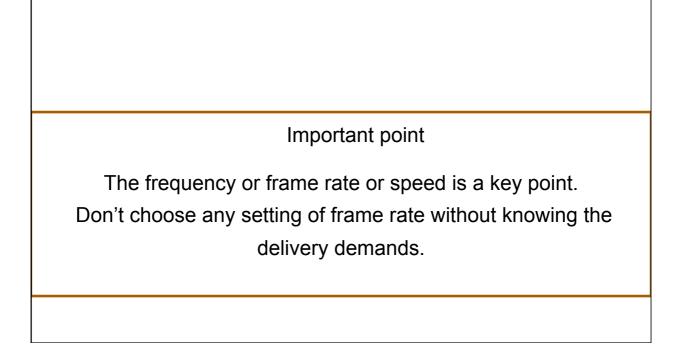
- Type of file format recordable (Codec, frame rate, resolution, bitrate, color sampling, quantification, container)
- · High speed recording capacities. Frame rate is an important parameter
- Recording times/capacities
- Minimum/maximum read/write speed
- Some manufacturers guarantee speeds, some not.
- Transfer speeds (offload) linked to readers/accessories/adapters. Transfer speeds vary and are dependent on host device.
- Combination between camera and media (example: Arri Amira approves or not media)

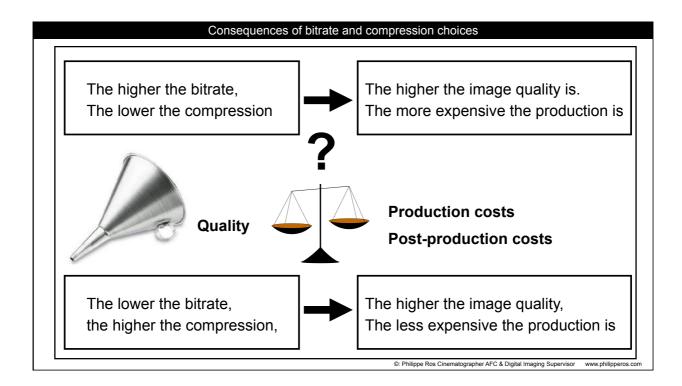
WHAT IS IMPORTANT TO KNOW ABOUT THE WAY CAMERA MANUFACTURERS ARE HANDLING & CHOOSING THE MEDIA - THE RECONSTRUCTION

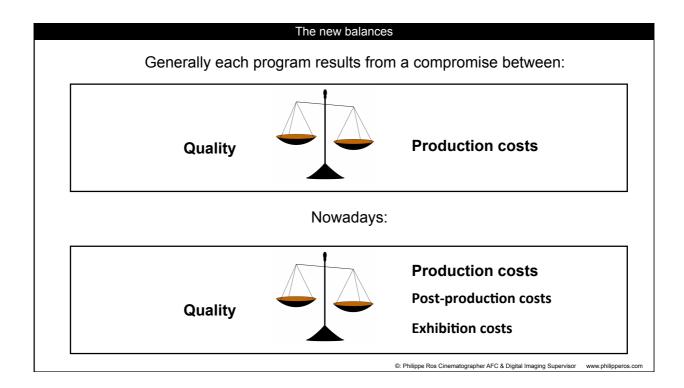
• Example: SxS Cards, they are designed for motion picture and they contain safety tools (controller with an intelligence function). Files can be reconstructed in a special Sony center in Brussels

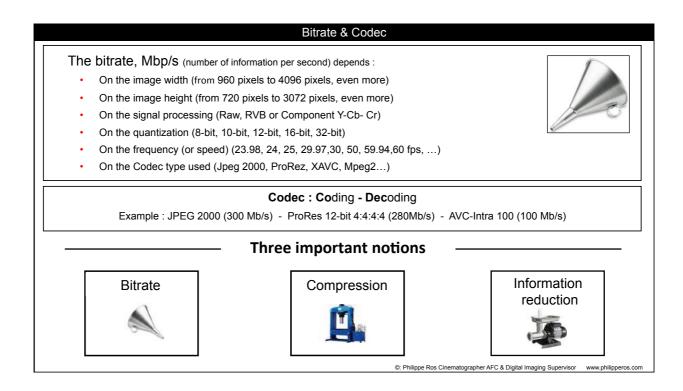


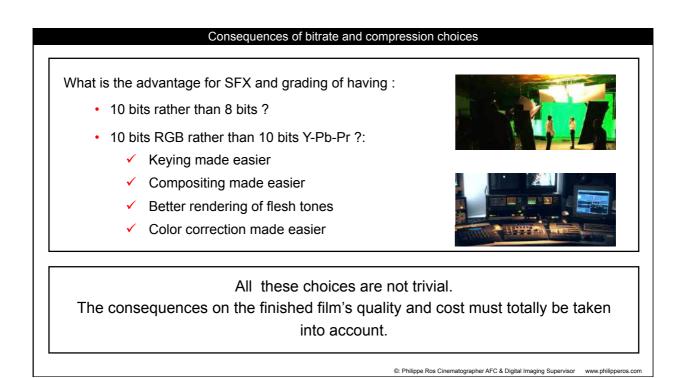
©: Philippe Ros Cinematographer AFC & Digital Imaging Supervisor www.philipperos.com

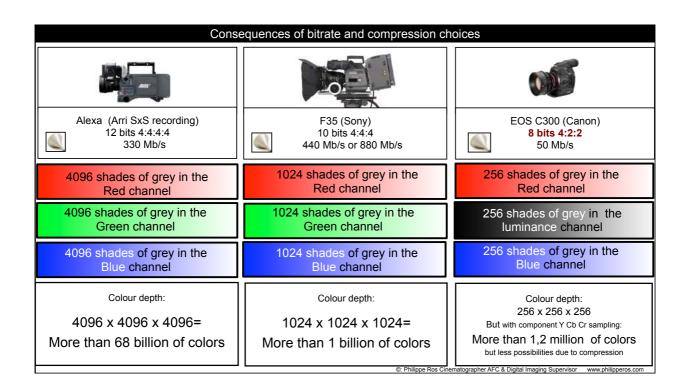


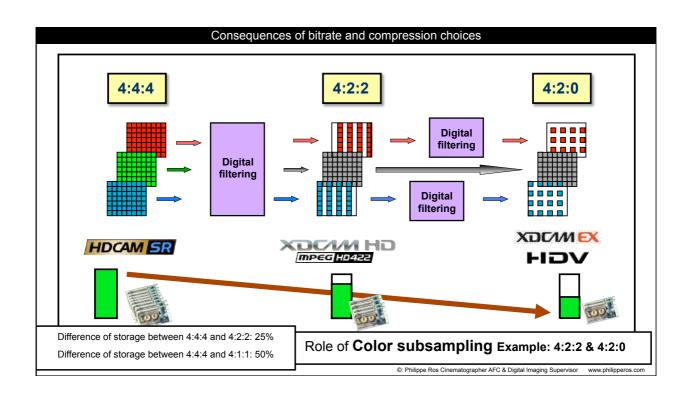


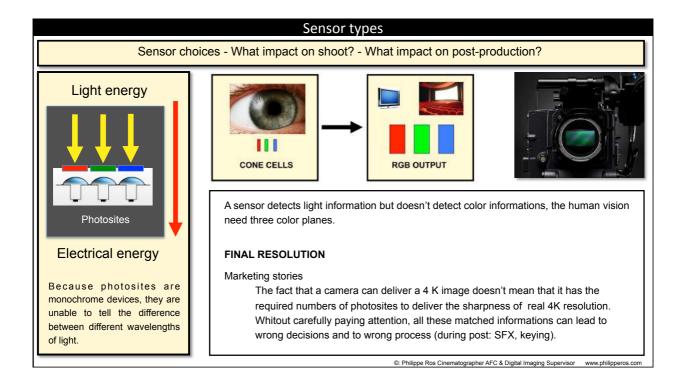


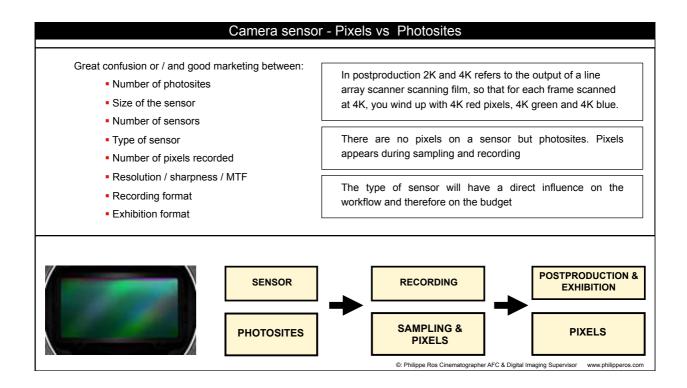


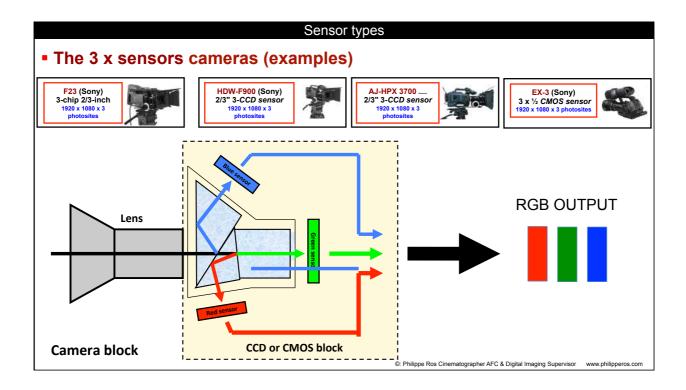


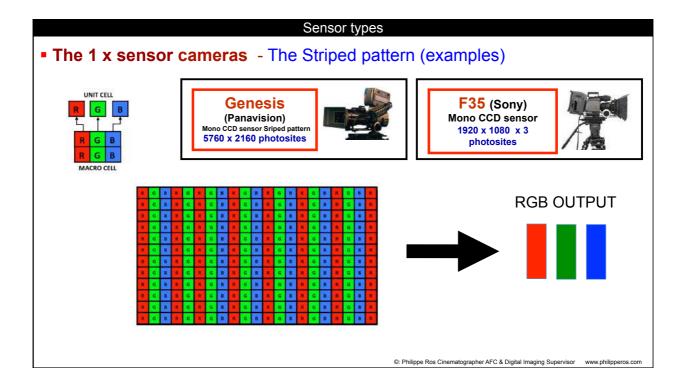












	,		, 0							ckerboard pattern, and the red and blue samples are a samples are twice that of the red and blue ones.
The (CFA (C	Color F	ilter A	rray c	or CFN	1 Colo	r Mos	aic Ar	•	positioned on top of the sensor to filter out the red,
greer	n, and	blue o	compo	nents	of lig	nt fallii	ng ont	o it.		
В	G	В	G	В	G	В	G	В	G	
G	R	G	R	G	R	G	R	G	R	2 x G G for 1 x 8 & 1 x B
В	G	В	G	В	G	В	G	В	G	
G	R	G	R	G	R	G	R	G	R	
В	G	В	G	В	G	В	G	В	G	
G	R	G	R	G	R	G	R	G	R	Channellin

