

RESTORATION & ARCHIVING SYSTEM FULL SERVICES



BADER COMMERCIAL
INVESTMENT

think.

Cairo



Cairo



London



Saudi Arabia - Jeddah

Roaya Films Productions | Main Office - Heliopolis 9 Mousa Al Aqad St. Thawra St.

Tel: 01001099099 | Email: ahmed.kamel@roaya.com | www.Roaya.com

Building the Impossible

Restoration & Archiving System Full Services

Roaya Company as part of the Group of media Production Group (Bader, Technodyna, Smash Cut & Think) greatly appreciate the success which has been reflected from the past 25 years led to enjoy a good base for excellent communications & developments with all clients. We will always stand on behalf of our achievements and accomplishments to complete what we have started, our responsibilities will never have an end; however, a start is actually the first step for every victory.

Looking at us today makes me believe that the start was right and our moves are taking all risks seriously.

In the face of new opportunities and challenges, we can climb greater mountains with high-quality products, establish prestige, shoulder customers' trust and gain the support of all. We will follow our spirit of “pragmatic, renovations, unity and hard work,” make use of advanced technologies, management, and provide efficient services as well as to improve the Luminance bigger title.

Roaya, Affiliated Companies & Team



Company's Archiving Systems Projects & Clients

- 1- Ministry of Finance Archiving System – Kingdom of Saudi Arabia.
- 2- SBG Group – London Archiving System – Kingdom of Saudi Arabia.
- 3- Media Production City's Archiving System – Egypt.



Technodyna's High-Performance Workflow Solution for Film Restoration

About Technodyna:

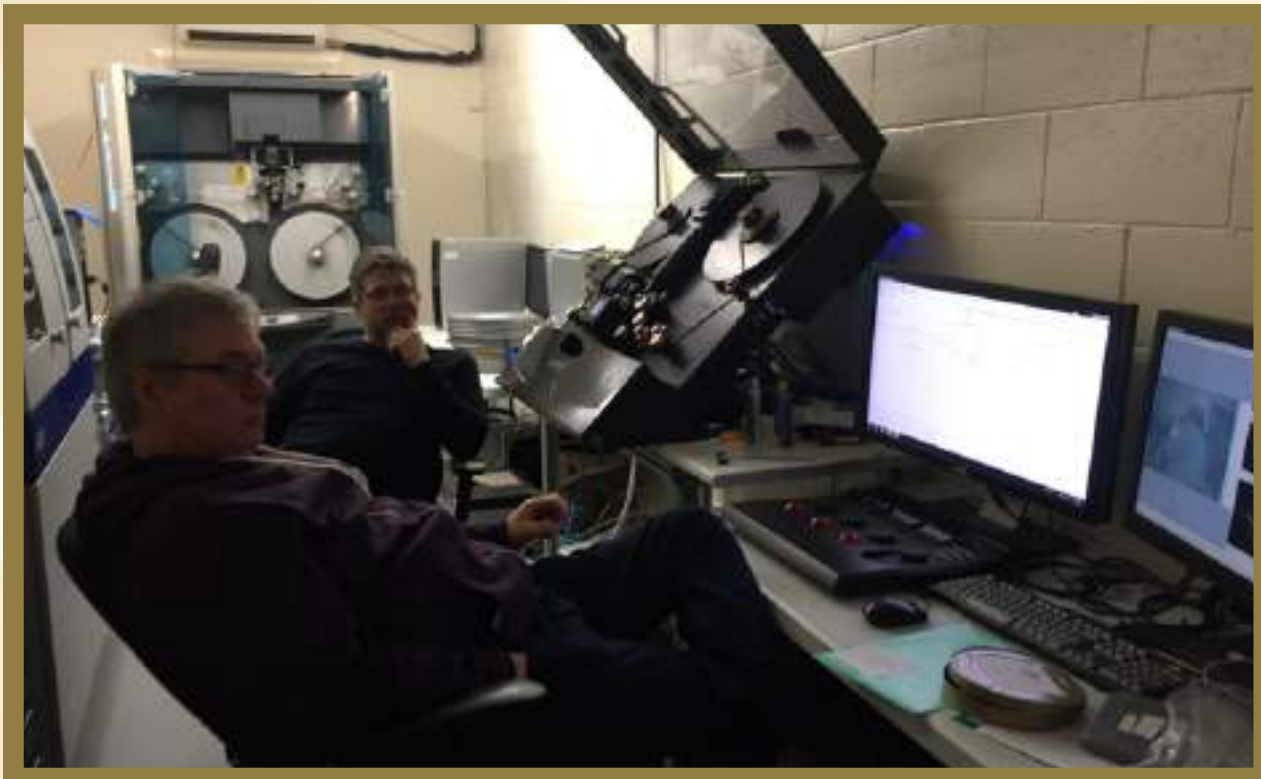
Technodyna is a media technology solutions provider based in Egypt, offering workflow design, implementation, and consultancy services to broadcasters, post houses, and media archives operating in the MENA region. Their engineering team possesses extensive experience in both the technical and operational aspects of media and film workflows.



The Challenge:

Technodyna faced a critical challenge when a new film restoration center approached them with demanding requirements:

- 1. Deliver 6 concurrent 4K DPX streams (each stream requiring 1250 MB/s)**
- 2. Achieve a total sustained performance of 8000 MB/s (64,000 Mbps)**



- 3.Enable any of the 3 workstations to handle 2 concurrent real-time streams simultaneously
- 4.Provide 500 TB of storage capacity
- 5.Implement the solution within the allocated budget of approximately \$400,000 for storage and related equipment, which was part of a total project budget of \$1,100,000These requirements were particularly challenging given the cost-sensitive market in which Technodyna operates.

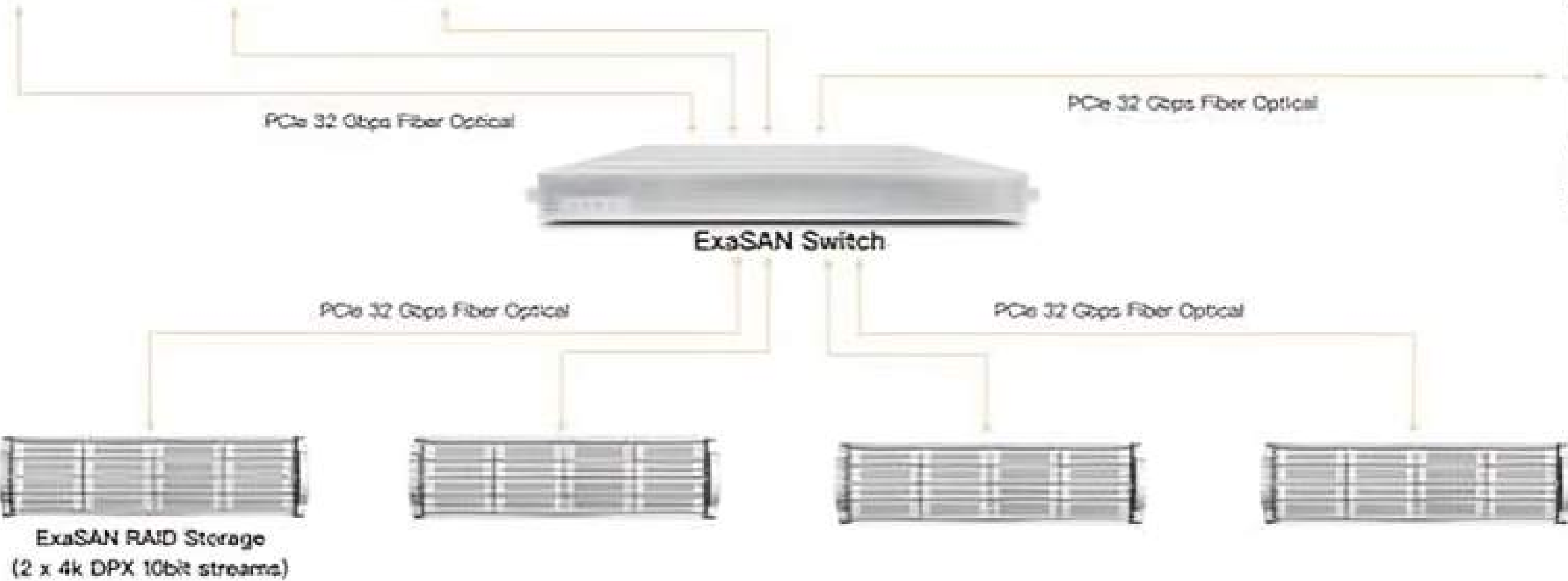
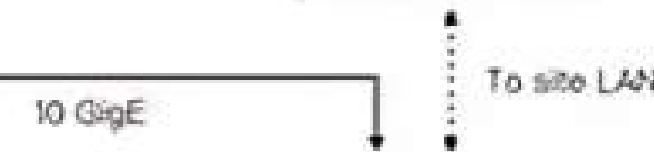


The Solution: Accusys ExaSAN

After extensive market research, Technodyna chose Accusys as their main storage provider. The solution included:

- 1- 4 x Accusys A16S3-PS storage chassis ExaSAN SW16-V3**
- 2- switch Accusys Z2M PCIe workstation cards for 32 Gb/s connectivity**
- 3-Bluewhale BWFS SAN filesystem**





Key Components:

1-Storage: Accusys A16S3-PS chassis (each capable of 2500 MB/s performance)

Connectivity: ExaSAN SW16-V3 switch for high-speed SAN

2-Workstation Integration: Accusys Z2M PCIe cards for 32 Gb/s connectivity File System: Bluewhale BWFS SAN filesystem for efficient data management

3-Gateway: Hyperminds Inc. gateway for connecting additional 10 GigE and 1 GigE clients



The Benefits

1-Exceeded Performance Requirements: Achieved over 9000 MB/s sustained performance, surpassing the client's 8000 MB/s requirement by more than 10%.

Cost-Effective: Met the client's budget constraints while delivering superior performance.



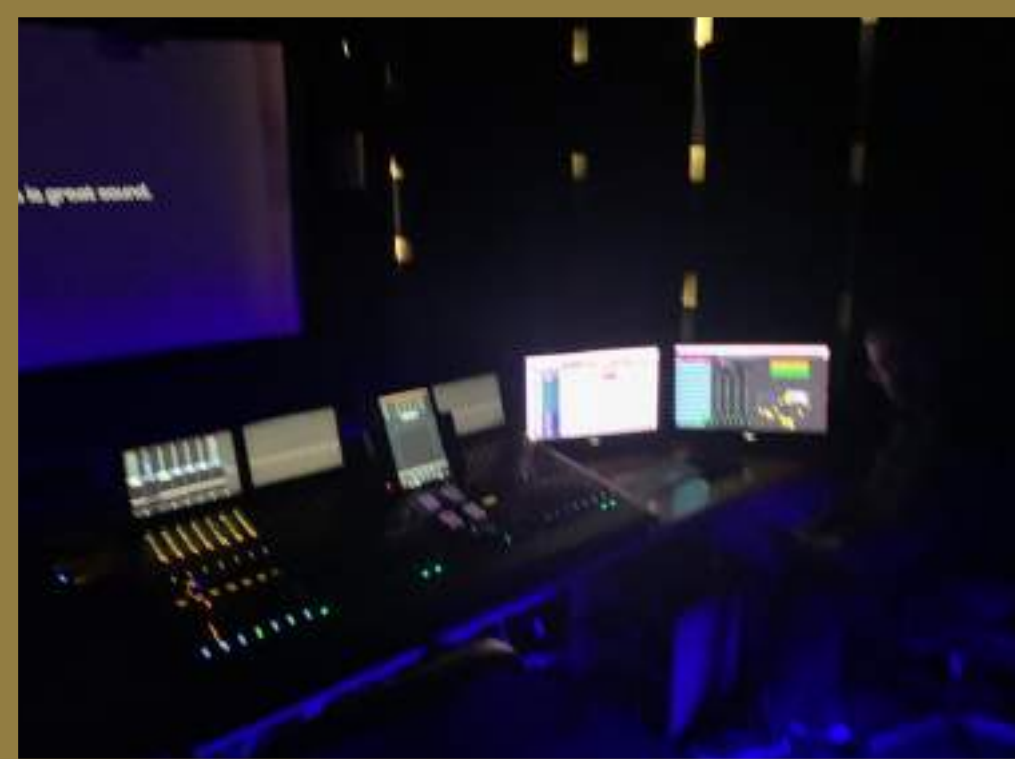
- 1- **Scalability:** The solution easily accommodated the 500 TB storage requirement.
- 2- **Flexibility:** Successfully integrated high-end workstations (HP Z8) and specialized software (Phoenix, PFClean, DaVinci Resolve).
- 3- **Efficient Design:** Compact solution with minimal hardware, resulting in lower power consumption and reduced running costs.



Client Feedback

Engineer Ahmed Madkour, Technodyna's CEO, stated: "Accusys products are very capable of supplying impressive performance with minimal hardware and at a very reasonable price. Today, we find that Even the older model Accusys storages we supplied to some of our clients five years ago are still meeting clients' needs today."

Performance



Single Workstation Performance:

- a. Write: 2410 MB/s (49 fps for Full Frame 4K 4096x3112) o
- Read: 2514 MB/s (51 fps for Full Frame
- b. 4K 4096x3112)
- c. Overall System Performance: o Sustained performance:
Close to 9000 MB/s when all workstations were tested simultaneously



Generally

By leveraging Accusys ExaSAN technology, Technodyna successfully delivered a high-performance, cost-effective solution that not only met but exceeded their client's demanding requirements. This case study demonstrates the power and flexibility of Accusys storage solutions in handling complex media workflows, particularly in budget-conscious markets.



Client's System Archive

Fast, Accurate and easy work flow

Sequences Implemented as follows:

- 1- Quick notes immediately applied after receiving the memory cards.**
- 2- Numbering with dates, days & events if happens.**
- 3- Transferring the material with Meta Data.**
- 4- Logging the material as proper as it should be.**
- 5- Ingesting the material in files as work flow rises.**
- 6- Encoding material for later usage.**
- 7- Converting material if needed.**
- 8- Use key words for search engine use.**
- 9- Duplicate the final file on date of the archive.**
- 10-Apply safety.**



(32 +/- users) @ 1GbE

University Switch
2 Available 10GbE SFP Ports

VPN Access

LTO6 Built In

Space Allocation (25TB Usable)

Space Allocation (144TB Usable)

Mirrored Data

25TB for Video Team

25TB Mirror for
Redundancy

125TB Tier 2 Storage
(use this to offload non
active projects)

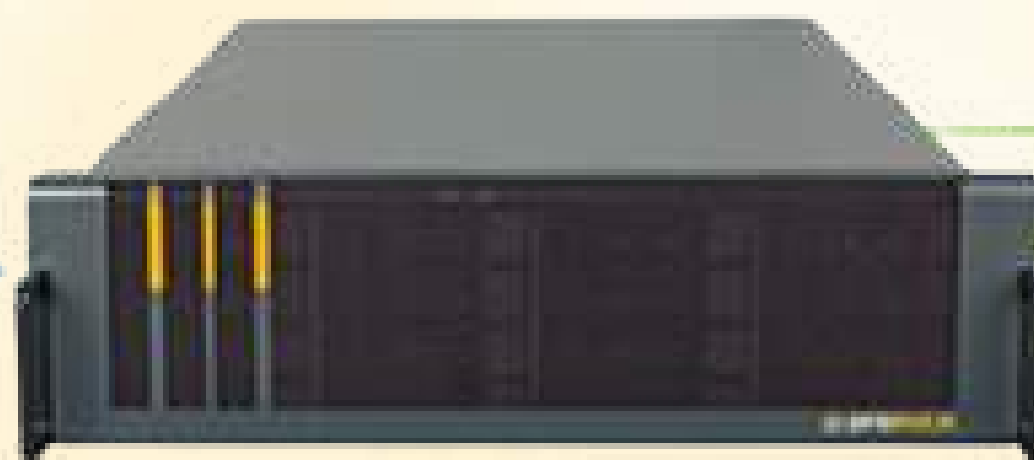
1GbE
10GbE

Active Directory

Active Directory



HD
SDI



Ingest

Speed Up Your Ingest

Connect your external storage, cameras, switcher or NewTek® device directly to shared storage for faster access to live content.



Manage

Your Content Velocity

Platform has built-in indexing and metadata management so you can easily find, preview tag and organize your assets with ease.



Edit

Create with Ease

Edit, Collaborate and design in Adobe® Premiere® Pro CC, Avid Media Composer®, or Apple Final Cut Pro® directly on Platform.



Archive

Pump Up the Volume

The entire Platform Family line has fully integrated Backup and Archival functionality so you can easily copy projects and media to LTO.



Transcode

No more Waiting

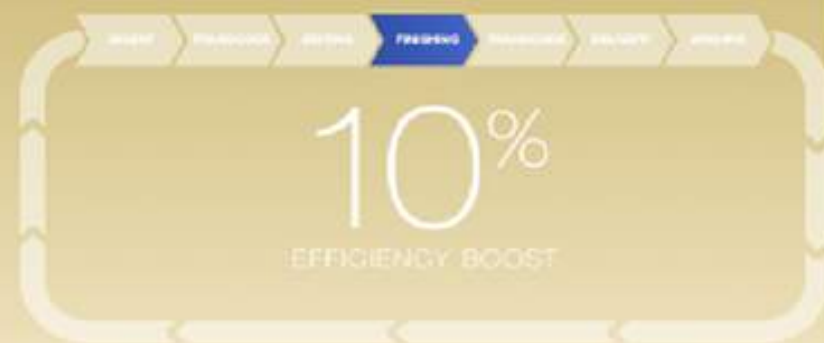
Directly offload transcoding tasks to Platform Servers and get back to being creative.



Render

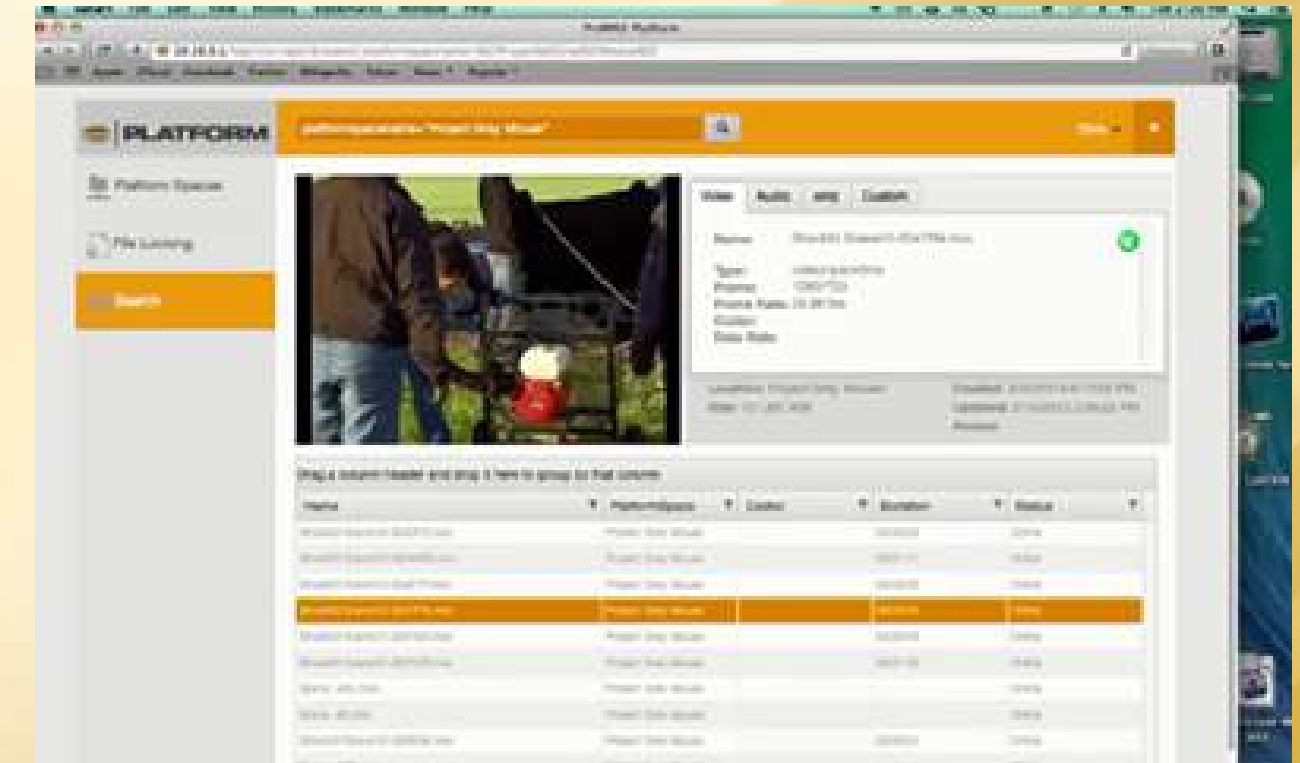
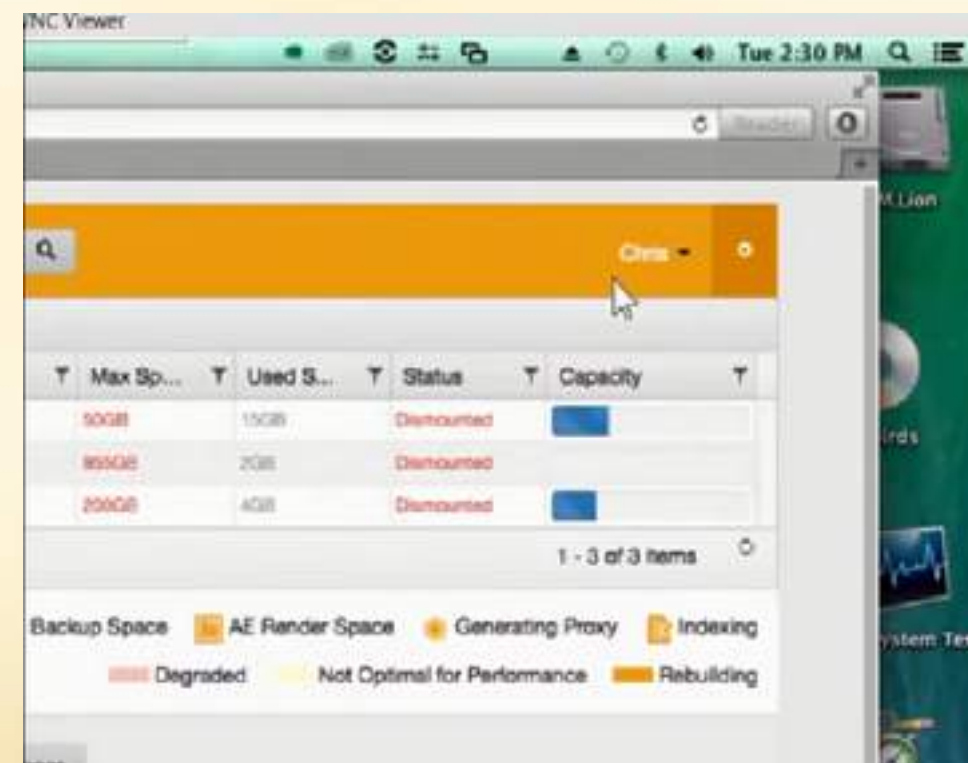
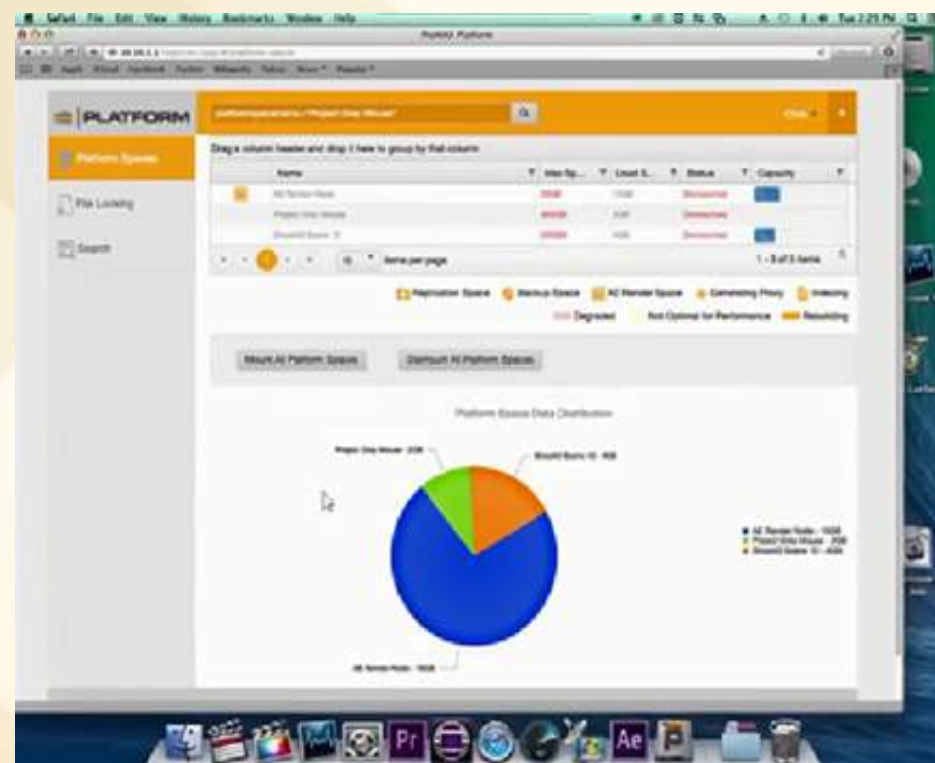
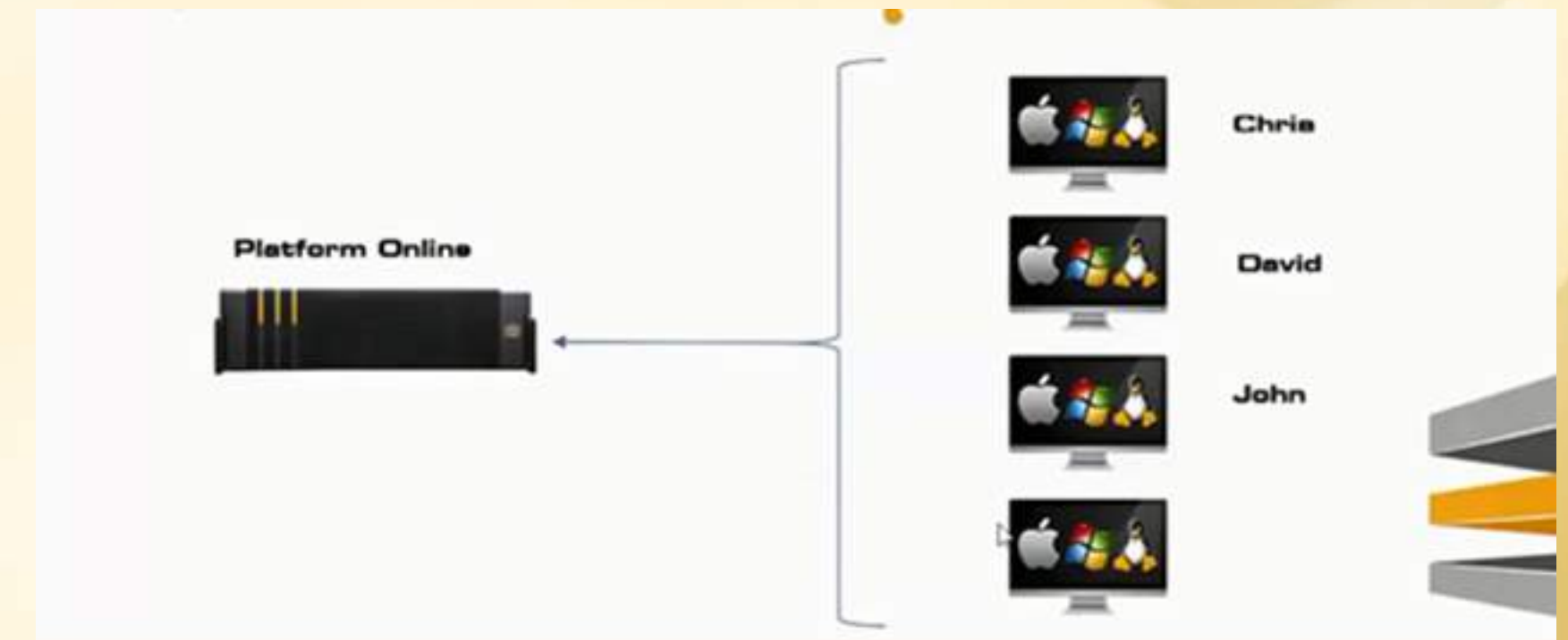
Offload Renders

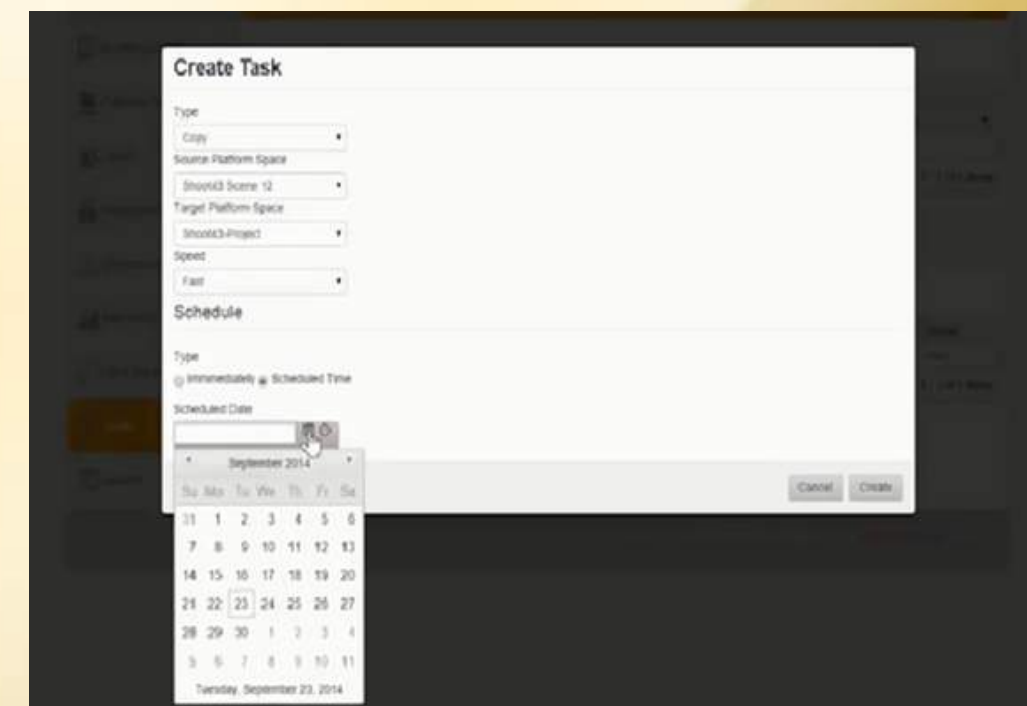
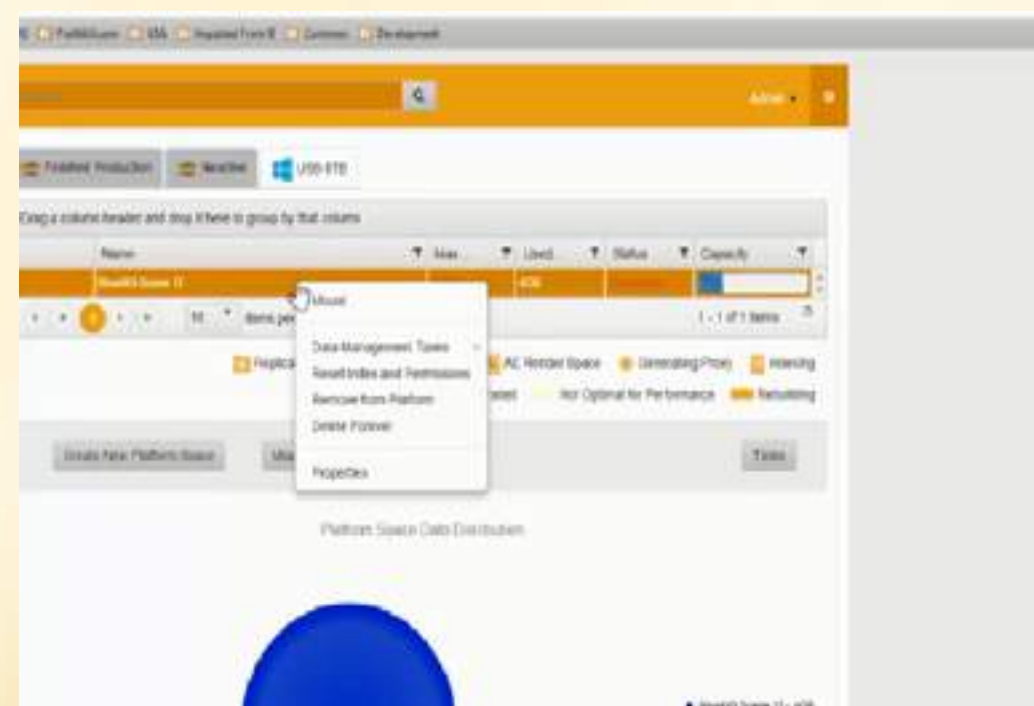
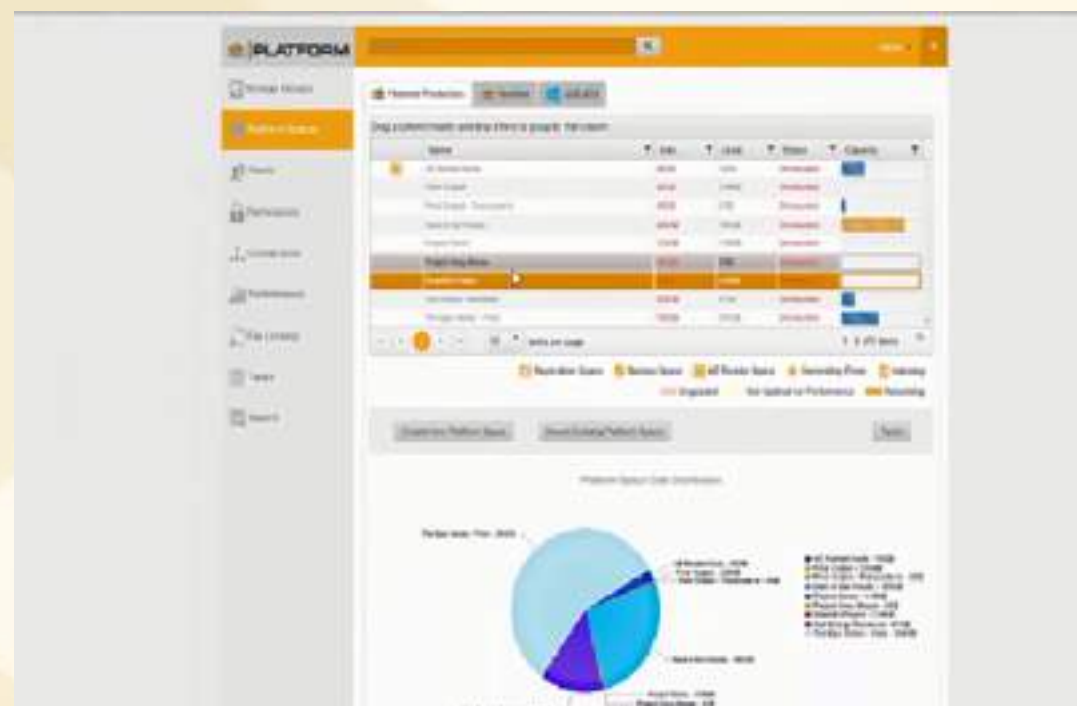
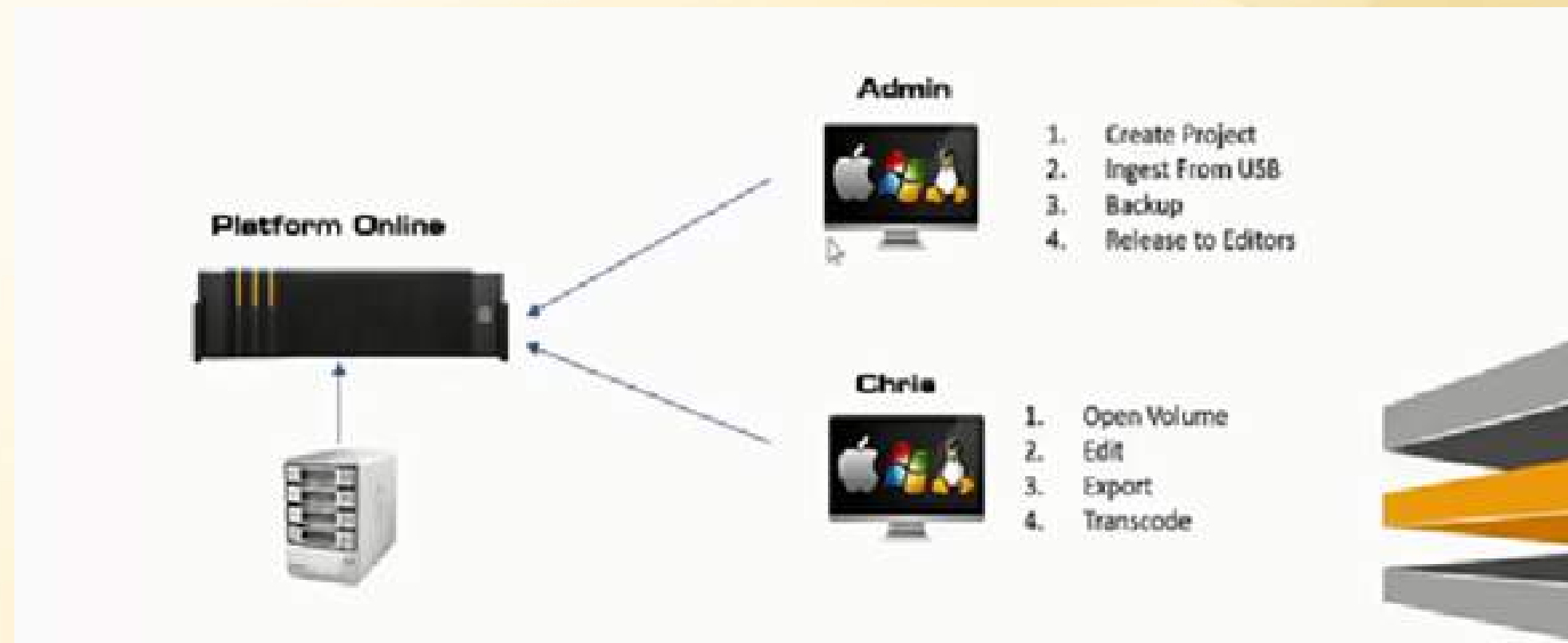
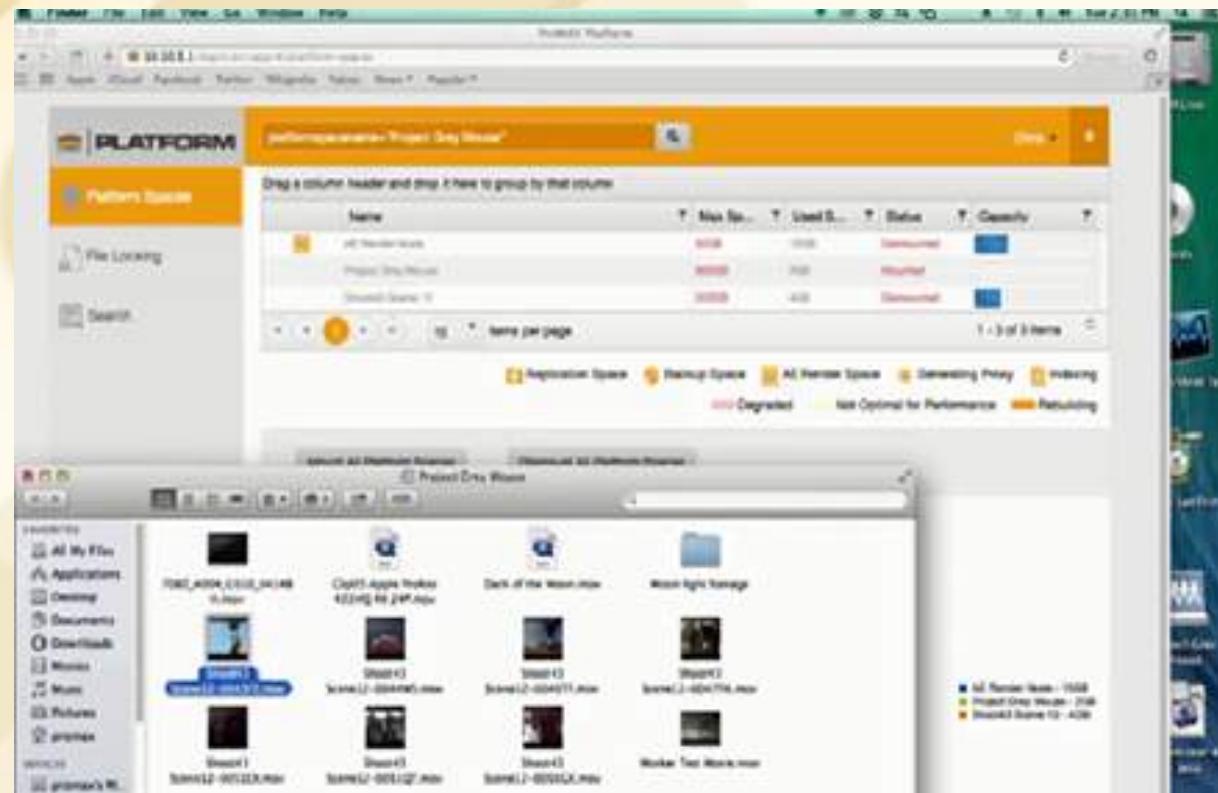
Instead of wasting precious creative time waiting for renders on your workstation, offload them to Platform.

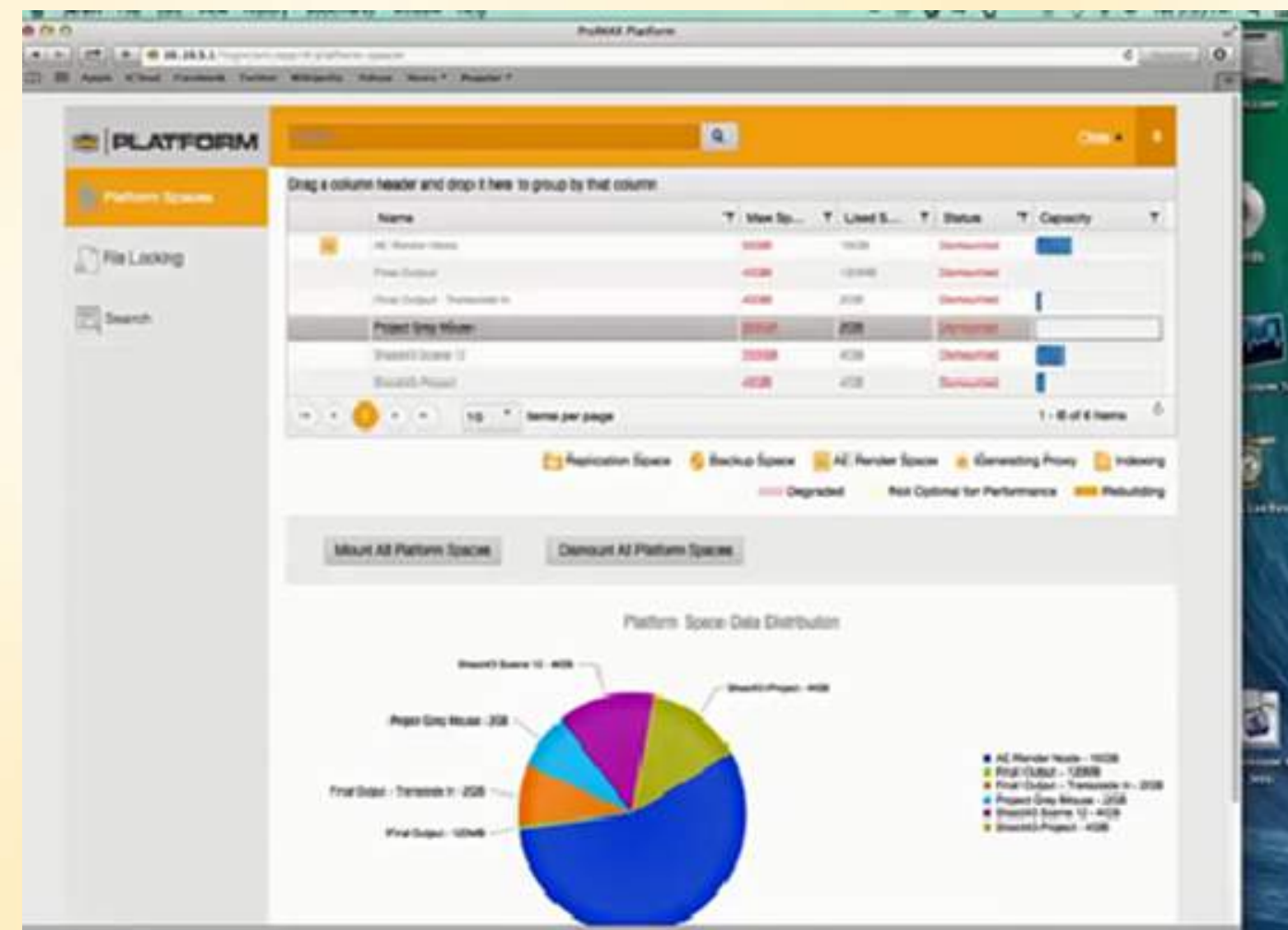
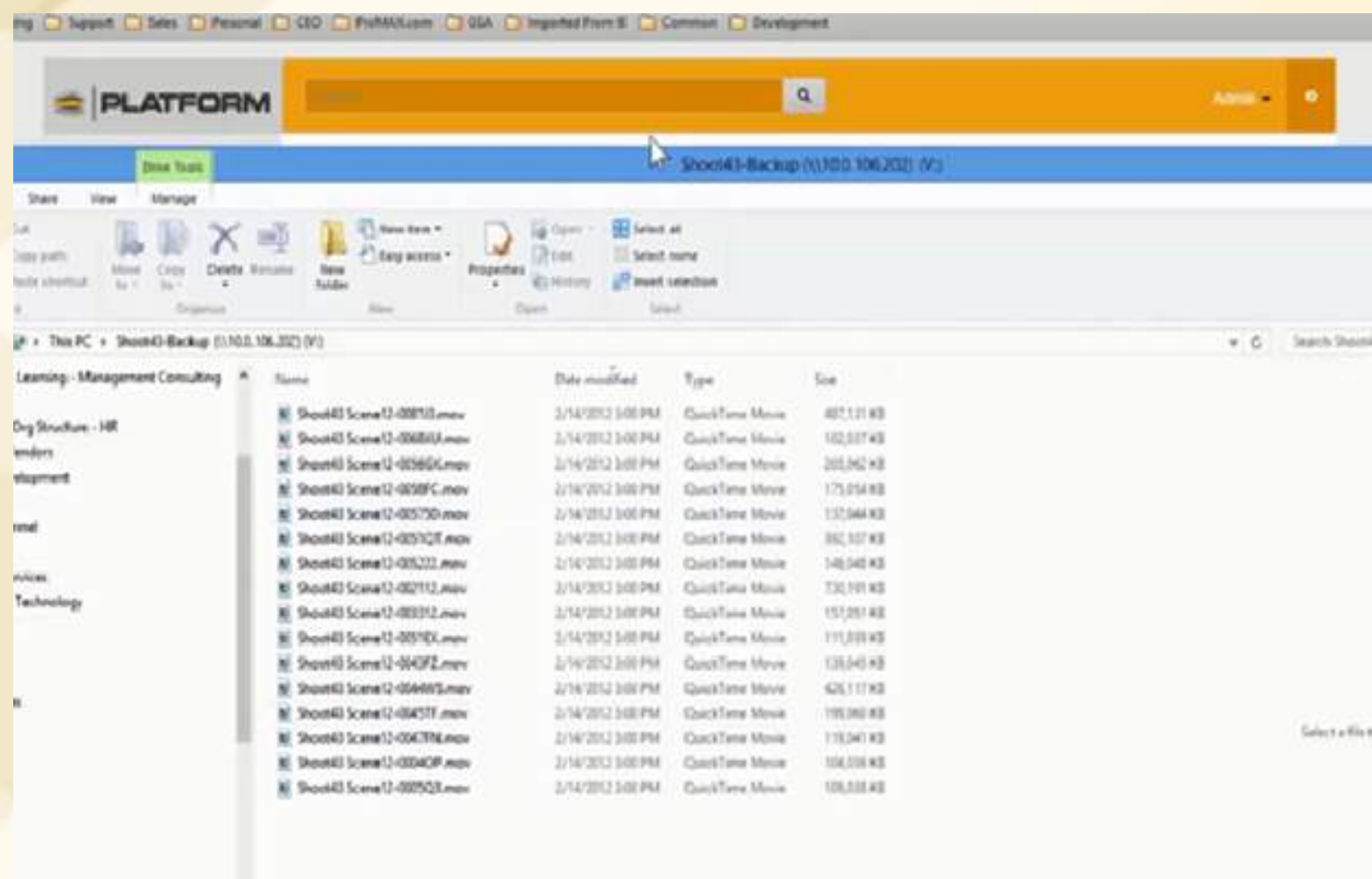


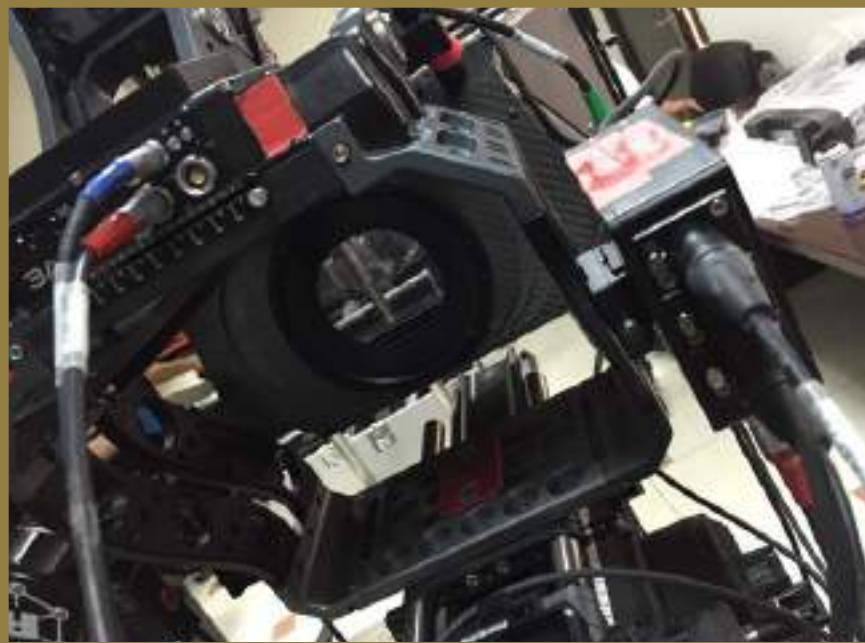
PLATFORM



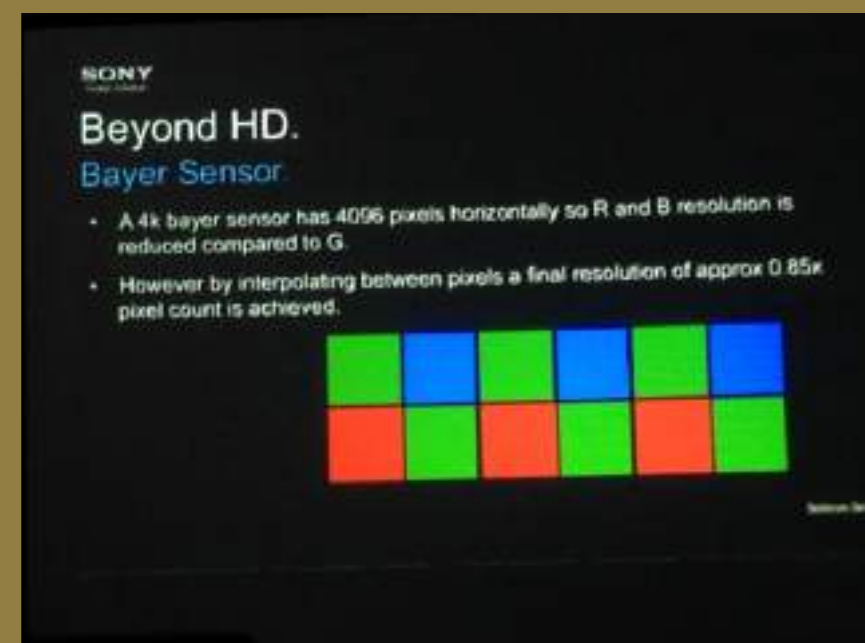
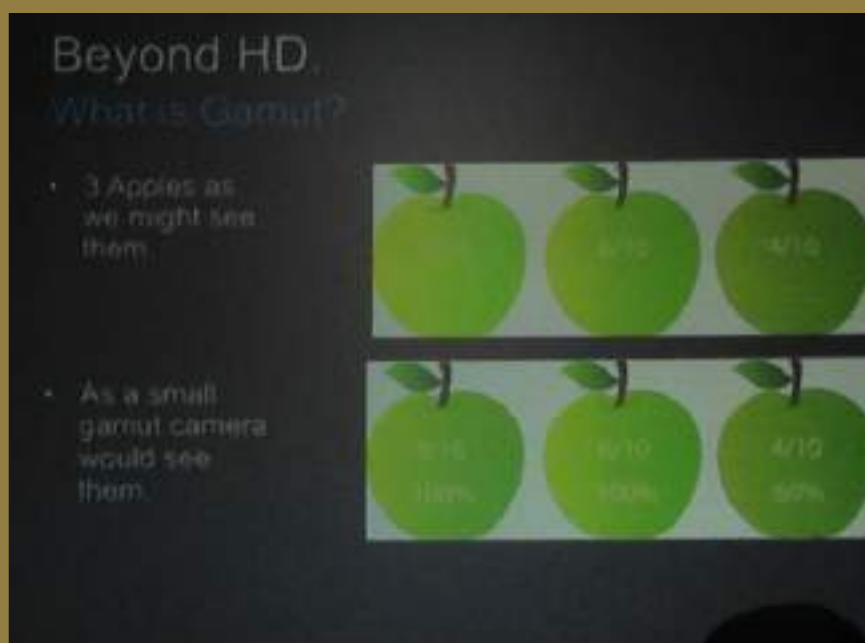








We are a Boutique of Full Media System...



Thank you



BADER COMMERCIAL
INVESTMENT

think.

Cairo



Cairo



London



Saudi Arabia - Jeddah

Roaya Films Productions | Main Office - Heliopolis 9 Mousa Al Aqad St. Thawra St.

Tel: 01001099099 | Email: ahmed.kamel@roaya.com | www.Roaya.com