

INVOICE:

ScanLAB Projects

Project No: 094\_LACMA\_PostLenLand  
Date: 05.10.2015  
Inv No: 100169  
Purchase Order No: -  
Vendor Number: -

**TO:** Amy Heibel  
Vice President, Technology, LACMA  
5905 Wilshire Blvd  
Los Angeles  
CA 90036  
United States

**RE:** Art + Technology Grant

Invoice for:

Job No.	Description	Cost
094_LACMA_ PostLenLand	Art + Technology Grant First invoice for [REDACTED]	[REDACTED]
Total		[REDACTED]

**FROM** Scanlab Projects Ltd  
[REDACTED]

Scanlab Projects Ltd  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

TSB  
ScanLAB Projects Ltd  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

# ScanLAB Projects: LACMA Art + Tech

## Summary Report - Milestone 01

Since receiving the grant and the initial start up meetings in LA we have reconsidered our proposals in light of both the practicalities of completing the work and the creative feedback received at LACMA.

There are 2 significant changes proposed:

- The idea of searching for additional funding for the 'made' part of the work and that this becomes slightly separated so that the expedition and dissemination of this expedition can still happen successful even if a 'made' work does not result.
- The idea of an expedition van which becomes part of the made artefact.

We are just entering a period of expedition planning and conceptual + technical development of the work which will lead to booking in firmly the trip to Yosemite.

A more detailed summary of the changes + coming plans can be seen below and in the attached documents (as discussed in email with Joel + Amy).

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### **REVISED PROPOSALS:**

We'd like to focus the LACMA funding on the expedition and on hosting an event where we share our working processes and the results of our capture with an eclectic audience of people who have a specific interest in the project themes. These would be curators, experts on the various photographers, photographers who have also re-photographed Yosemite, technology providers who are also re-photographing Yosemite. Rather than meet these people in the research stage and spend all of our money going to see them, we'd like them to come to us - and when we have something substantial to show!

We'd also still like to produce a final work - and for this to be the catalyst for discussion at our end event - however we do not believe we realistically have funds to achieve this (within the LACMA fund). We are therefore planning to approach other funders to assist with this specific element of the project.

### **EXPEDITION:**

We believe the way to go with this is an unashamedly modern and technologically enhanced approach. We should not walk for 10 days to get somewhere we can drive to, we should not conserve battery life if we can charge them in our camper/van studio, we should not struggle for a viewpoint on foot if a drone can get there in seconds.

A key ingredient to this will be a vehicle. We would like to kit out a ScanVan, as a mobile studio, dissemination point and home for the expedition. We will travel in this, work from it, live in it, project our scans into the forest from it, host bbq + scan nights in the park around it. Further more this vehicle will become an integral part of the project documentation, and eventually become the work itself - see FINAL WORK.

Here comes our first big ask of the supporters - do you think Hyundai with donate a van?

### **RESEARCH + EXPEDITION PLANNING:**

Before we depart we see two vital stages -

Research - will help us contextualise our project further, build up a network of people who will advise us but also who will gain an interest in the project and will hopefully take part in the final event.

Planning - there are a lot of logistics. From access to off trail parts of the the park, permissions to scan, equipment, weather, tents + vans. We'd like to start this ASAP

### **FINAL WORK:**

Please see attached pdf.

As we have suggested we would like to equip a vehicle for the expedition. This vehicle will exist as our focal point within the landscape and a hub for the expedition. It will be filled with tech, a weird van sized computer operating in relative wilderness. Towards the end of our time in Yosemite the van will begin to present our findings in nightly projections onto the surrounding forest in an adhoc forest cinema.

When we leave Yosemite want to embed our captured landscape within the van. We intend to strip the interior of the van, paint the entire exterior including windows a matte white and create a holographic vision of Yosemite within. Viewers will peer through a series of peepholes cut into the side of the van and glimpse a slowly rotating digital effigy of the landscape. You will see the van interior in the dim light and other peep holes across empty shell but the dominate view will be a ghost of Yosemite suspended in glowing dusty points. each viewpoint will see an adjusted view, so the landscape truly appears to exist within the van from all angles, despite moving. This will be achieved through Museum of Jurassic Technology esque binocular lens reflectors.

Our intention is to take way you experience scans to somewhere completely new, to make a nod to the early stereoscopic images that many of our photographers took in Yosemite and also a reference to Duchamp's Given (which itself is a staged critique of traditional perspective and an ode to stereoscopy). We are fascinated by the popular spectacle that Yosemite has become and the advance in your ability to experience this remotely too. Our urban peep show will embrace and critique the overexposed Yosemite in the tradition of 19th century fabricated spectacles, but strangely the crowd will gather around a discard van, parked in the LACMA courtyard.

### **TIMESCALE:**

See attached pdf for a detailed breakdown.

The highlights are:

- Planning + Prep until the weather gets better in Yosemite!
- Expedition in May
- (Production - covered by other funds) June/July
- Event at LACMA July/August

### **BUDGET, MILESTONES, PAYMENT SCHEDULE:**

See attached pdf for detailed breakdowns

Basically all of the LACMA money realistically goes on the expedition and associated logistics. We will spend the remainder beforehand preparing, researching + planning and after getting ourselves in LA for a final event. We are looking to raise another [REDACTED] for production of the final work and that does assume so relatively healthy hardware donations from Hyundai, and possible Nvidia + DAQRI (see below). We know this is ambitious but we plan to appoint a very pro curator + grant getter here in London, and we have already isolated a couple of very appropriate so at this stage we are confident!

### **THE PUBLIC + (invited experts):**

There are two key sharing moments where we really want experts + the public alike to get involved in the project and see what we are up to. The first happens in Yosemite at the end of our expedition, when we start to show the results in an adhoc forest cinema space. The second would perhaps be a little more formal in the form of a symposium style event at LACMA at the end of the project

### **ASKS !!!:**

Google

- a meeting with their maps guys - over skype (Max suggested he could perhaps arrange this)
- a talk to the guys who collected + processed some the Yosemite data they have collected - again over skype
- access to the Yosemite data (Earth, Streetview, others)
- them to attend our Yosemite + LACMA conversations
- 

Hyundai

A big one we know.....

- a van - specifically  
<http://worldwide.hyundai.com/WW/Showroom/Commercial/H350/PIP/index.html>
- 
- insurance of the van?
- We plan to use this in its functioning state for the expedition then refurb it as the exhibition piece (keeping the important parts still functioning so it can be driven away in future)

Nvidia

We didn't meet these guys unfortunately as I think we could have a great conversation and potentially provoke some interesting technical challenges for them.

- Our request would be some hardware and software support for the final piece - basically all or part of a computer capable of playing a lot of videos simultaneously and reliably.
- 

DAQRI

We had a good chat with these guys. We think their technology must do some interesting things technically projecting onto the glass visor of their helmets. We'd love to see this in action. We also think a similar technique could replace our binocular method for producing the final piece. Perhaps that ruins the old school interface that we envisage but we'd be very interested in exploring this.

### **WORKSHOP / STUDIO SPACE:**

We are being ambitious here but what we would really require is:

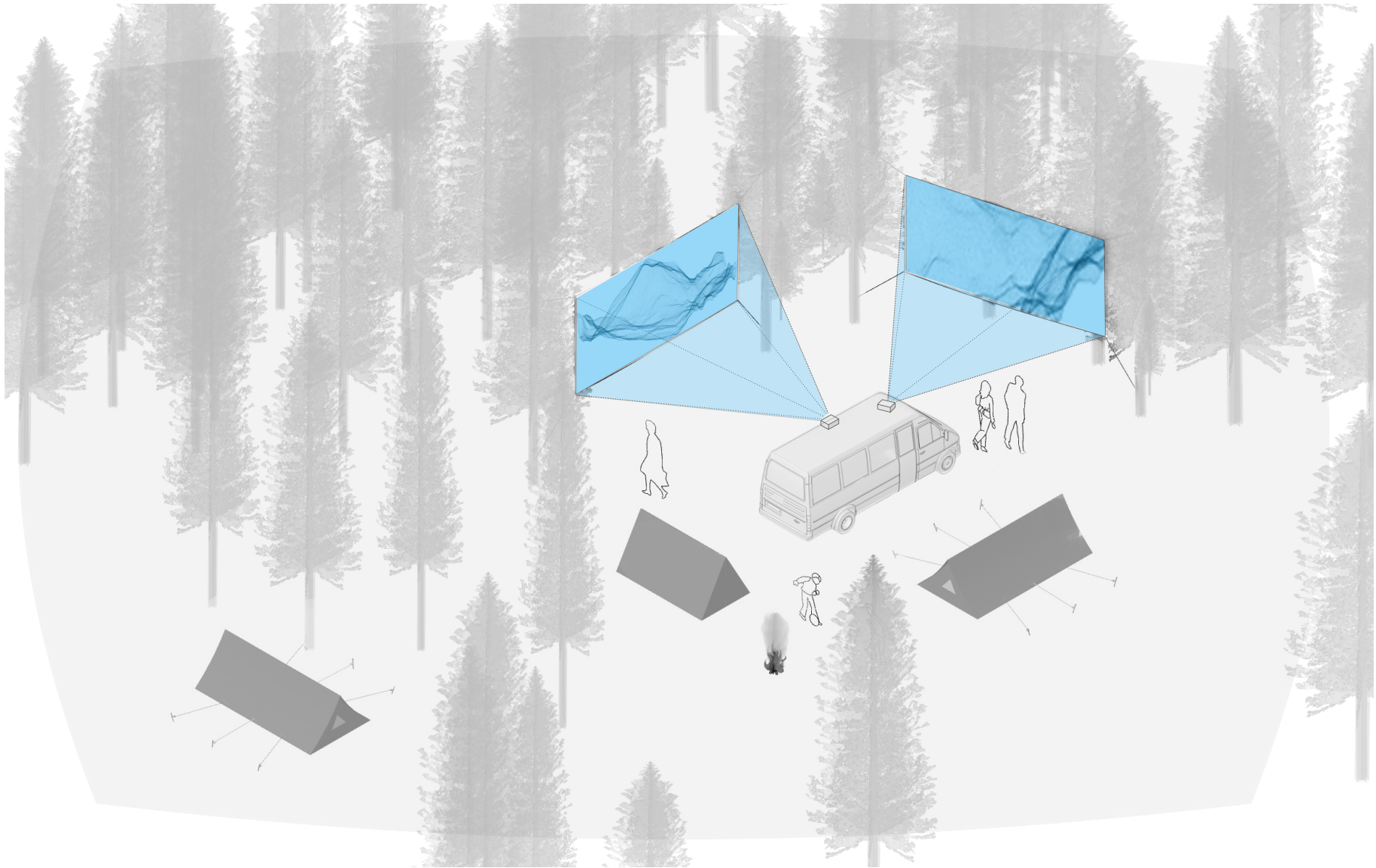
- Parking for our van May - July
- Fabrication / Workshop + Studio space where we can access and work on/in the van July/Aug

Milestone 01	Description	Number required	Rate	Total
<b>RESEARCH + ORGANISATION</b>				
Research Days - People	Time in the UK researching the project background and context	10	████	████
Coordination Days - People	Time planning the expedition, booking flights, preparing expedition plans and route	10	████	3611
<b>EXPEDITION</b>				
Return flights - Expedition	Flights UK to US and back	5	██	████
Equipment Shipping - Expedition	Equipment shipping to US and back	1	████	████
Hotel nights - Pre expedition	A few pre booked nights pre expedition	3	██	████
Tents etc	General camping equipment required for the expedition	1	██	██
Extra Scan/Photo Gear	Additional specialist equipment to improve work on the expedition	1	██	████
<b>TOTAL</b>				████

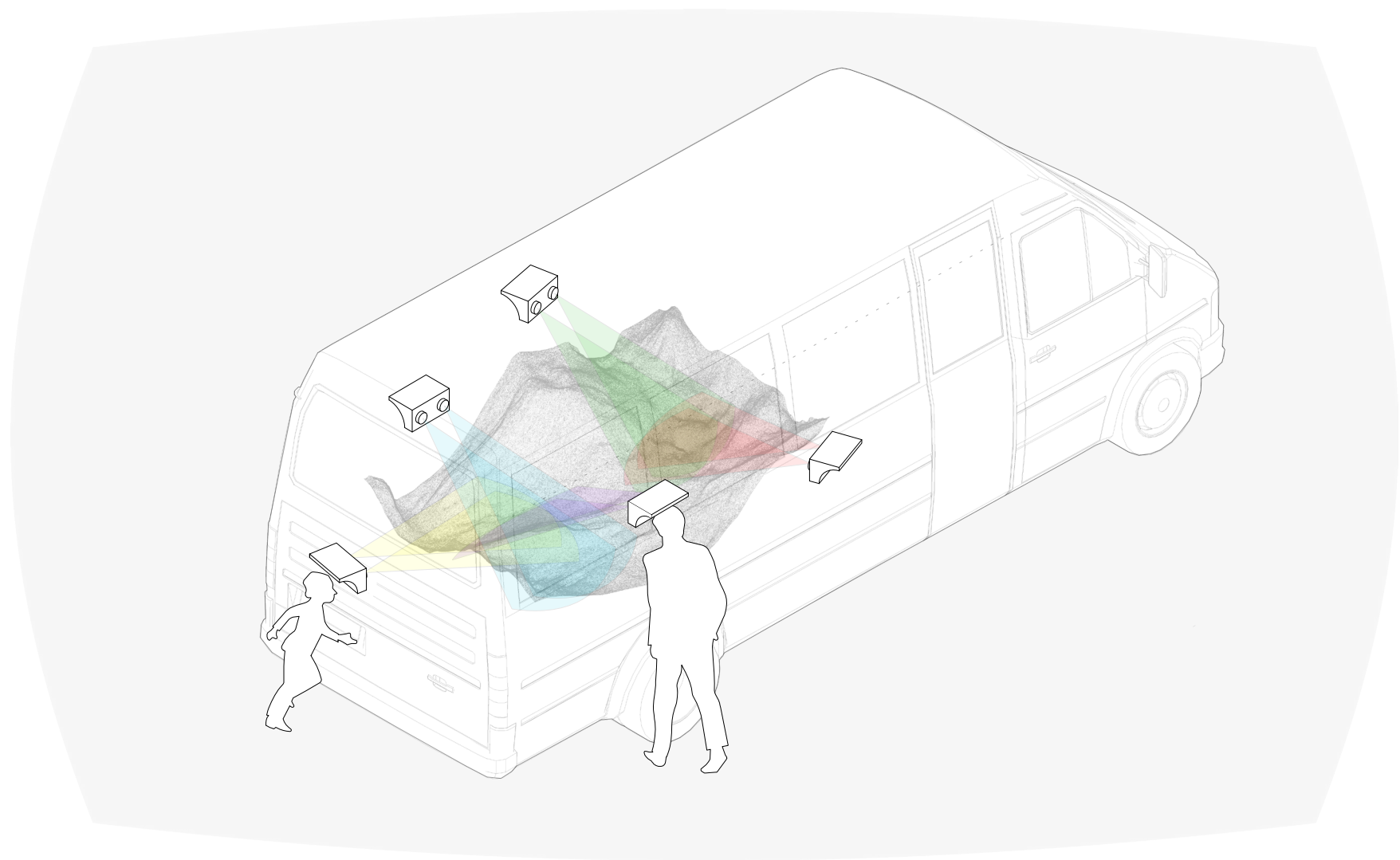


The Expedition:  
Van in the landscape, our base, our mobile studio,  
our bedroom, the high-tech centre of our camp

ScanLAB Projects  
[scanlabprojects.co.uk](http://scanlabprojects.co.uk)

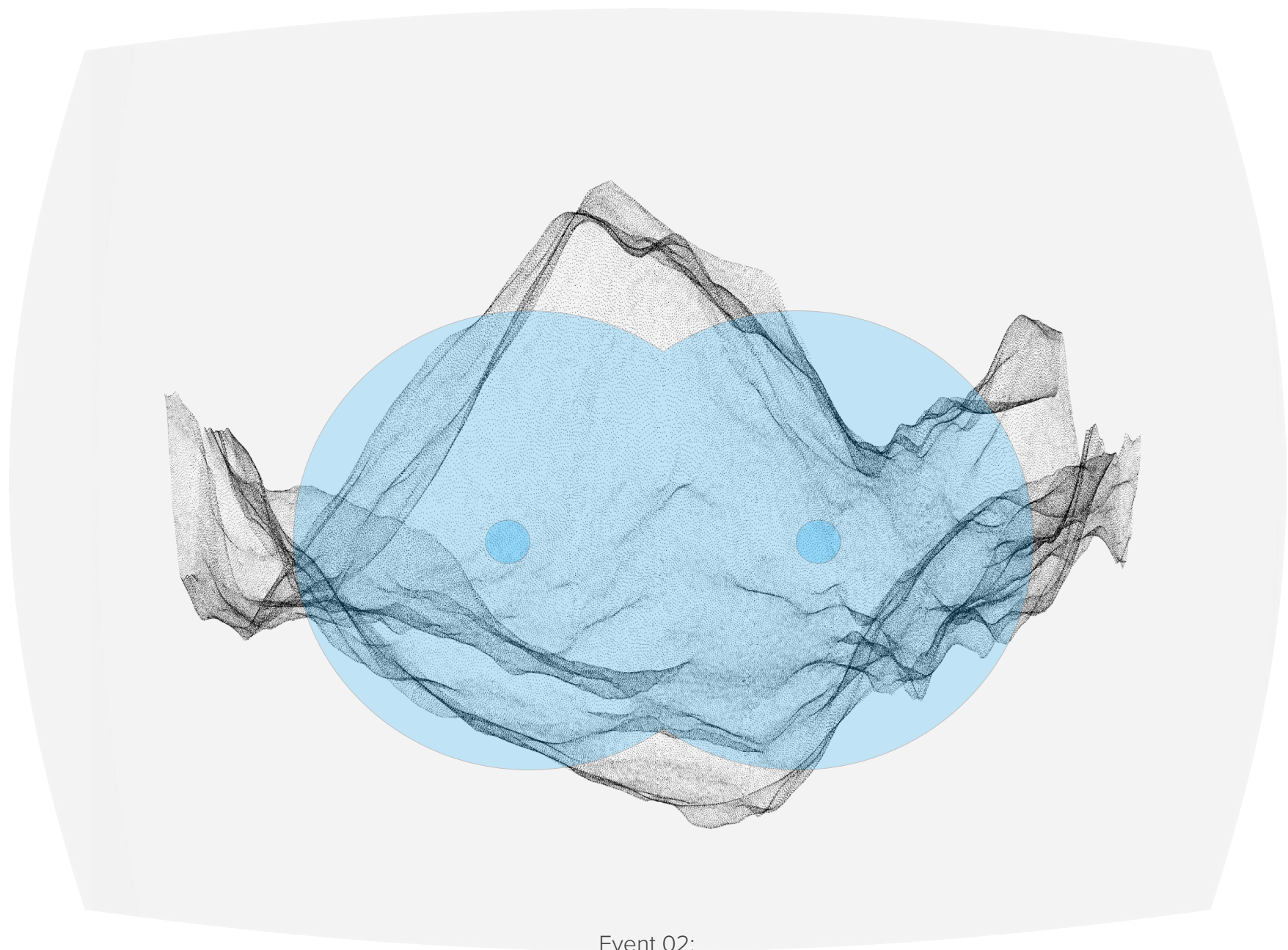


Event 01:  
Projecting back onto the landscape, our adhoc  
forest cinema, a public camp fire symposium



Event 02:  
Captured landscape, landscape as apparition,  
a fabricated spectacle, a modern day landscape peepshow





Event 02:

Personal landscape perspective, sometimes exactly re-framing  
Muybridge/Adams/Weed/Klett/Wolfe/Google  
sometimes drifting to an impossible in cliff viewpoint

ScanLAB Projects  
[scanlabprojects.co.uk](http://scanlabprojects.co.uk)

PROJECT MILESTONE + PAYMENT SCHEDULE			
KEY MILESTONE	DATES	BUDGET REQUESTED	PAYMENT DATE
		USD	
<b>Research + Expedition Planning</b>	Aug 2015 - Jan 2016	██████	1st September 2015
UK research time			
Expedition planning			
Flights, accomodation booking			
<b>Expedition Costs: Phase 1</b>	Dec 2015 - March 2016	██████	1st December 2015
Equipment			
Shipping			
Accomodation			
Artist Fees			
<b>Expedition Costs: Phase 2</b>	April - May 2016	██████	1st March 2015
Food			
Transport			
Accomodation			
Artist Fees			
<b>Production + Event</b>	June - July 2016	██████	1st June 2015
Material Prep			
Artist Fees			
<b>TOTAL</b>		██████	

PROJECT BUDGET					
EXPENSE	NUMBER REQUIRED	COST £	TOTAL COST £	TOTAL COST \$	
<b>RESEARCH + ORGANISATION</b>					
Research Days - People	10	■	■	■	
Coordination Days - People	10	■	■	■	
<b>Sub Total</b>			4600	7222	
<b>EXPEDITION</b>					
Return flights - Expedition	5	■	■	■	
Equipment Shipping - Expedition	5	■	■	■	
Hotel nights - Pre expedition	8	■	■	■	
Hotel nights - Post expedition	16	■	■	■	
Van - - - - Gift ?	1	■	■	■	
Tents etc	2	■	■	■	
Food	70	■	■	■	
Extra Scan/Photo Gear	1	■	■	■	
Van Parking - - - - - Gift ?	1	■	■	■	
Expedition Days - People	70	■	■	■	
<b>Sub Total</b>			■	■	
<b>FABRICATION + PRODUCTION</b>					
Tech Testing Days - People	10	■	■	■	WE ARE LOOKING TO COVER THESE EXPENSES WITH ANOTHER FUND - Possible British Council, Arts Council
Tech Testing Kit	1	■	■	■	
Return flights - Fabrication, Production, Event	4	■	■	■	
Hotel nights / Apartment Hire	26	■	■	■	
Projectors / Screens	5	■	■	■	
Fixing + Fittings	1	■	■	■	
Power + Cooling	1	■	■	■	
Viewers / Lenses	1	■	■	■	
Content Processing + Production Days - People	15	■	■	■	
Fabrication Days - People	26	■	■	■	
<b>Sub Total</b>			■	■	
<b>EVENT</b>					
Flights - covered by production budget	0	■	■	■	
Accomodation - covered by production budget	0	■	■	■	
Presentation Days - People	4	■	■	■	
Presentaion Material - Printed + Prepared	1	■	■	■	
<b>Sub Total</b>			■	■	
<b>TOTAL - Research, Expedition, Event</b>			■	■	
<b>TOTAL - Fabrication + Production</b>			■	■	
<b>GRAND TOTAL</b>			■	■	
GRANT			■	■	
SHORTFALL			■	■	

INVOICE:

ScanLAB Projects

Project No: 094\_LACMA\_PostLenLand  
Date: 13/01/2016  
Inv No. 100188  
Purchase Order No: na  
Supplier Number na  
Customer VAT No. na

**TO:** Amy Heibel  
Vice President, Technology, LACMA  
5905 Wilshire Blvd  
Los Angeles  
CA 90036

**RE:** Invoice for: Art + Technology Grant

Job No.	Description	
094_LACMA_ PostLenLand	Art + Technology Grant Second invoice for [REDACTED]	[REDACTED]

TOTAL [REDACTED]

**FROM** ScanLAB Projects Ltd  
Registered Company Number: 7704626

Scanlab Projects Ltd  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

TSB  
ScanLAB Projects Ltd

[REDACTED]  
[REDACTED]

[REDACTED]  
[REDACTED]

[REDACTED]

# ScanLAB Projects: LACMA Art + Tech

## Summary Report - Milestone 02

Since our Milestone 01 Report our project has progressed significantly and the major focus of our work, the expedition, is ever closer to becoming a reality. Our recent progress can be summarised under the following headings:

- Expedition Planning
- Documentation + Media Collaborations
- Further Funding Applications
- Final 'Artwork' Experiments

### PROGRESS DETAILS:

#### **Expedition Planning**

- Our expedition timescale is set (see attached)
- We are watching flight costs and will be booking the most economical tickets over the coming 2 weeks
- We have had initial positive contact with on-location facilitators (National Park coordinators + Rangers)
- We will shortly (by 22nd Jan) make our permission application for works within the park
- We have booked accommodation for our time within Yosemite. Camping with RV Hookup 5th May - 11th May North Pines Campground. Permanent Tented Accommodation 11th May - 16th May 'Curry Village'.
- We have made initial contact with Hyundai who we hope will be providing an expedition vehicle for the project-to be incorporated into art piece
- We have begun our on-location strategy in terms of scanning locations, number of scans, equipment required etc etc.
- We have begun to source the required technical equipment

#### **Documentation + Media Collaborations**

- We are awaiting confirmation from The BBC that they will cover our project for a art + history themed documentary covering the project. The decision is currently with the BBC commissioners.
- There is potential the BBC will try to co-commission this documentary with PBS or another US based partner.
- We have made provision in our accommodation bookings for an extra 'media' team of 2 at no extra cost to the project.
- We have begun to compile list of alternative media partners and documentary makers who could follow the project in the event that the BBC are not able to fully support the project.

#### **Further Funding Applications**

- We are almost ready to make 5 funding applications for further budget to cover the production costs of a final physical artwork.
- Applications will be made to the following funds; The Arts Council - Grants for the Arts over [REDACTED] Esmée Fairbairn Foundation, The Fenton Arts Trust, Wellcome Trust Arts Awards, The Andrew Mellon Foundation
- To be clear the LACMA money covers the expedition and US events. This additional funding aims to produce a physical artwork but is not relied upon for the success of the LACMA project.
- All applications will be made by the end of Jan and will be shared with LACMA before submission

### **Final 'Artwork' Experiments**

- We have begun some experiments for the projection method for a final work, including the building of an optical rig for holographic projections (see attached very draft mockup images - we are in the early stages)
- We have purchased various lenses, mirrors and reflectors for this purpose. (NOTE: Not Using LACMA Funds)
- We are also producing our first test content from appropriate pre-existing ScanLAB 3D scans that will be replaced by the data captured
- We have made initial enquiries with Google, Nvidia, Daqri A+T LAB contacts to explain our project and ask for some support. As this stage we believe this contact can pause and be taken up as more precise requirements emerge.

### **NEXT STEPS**

- Yosemite application to be complete by 22nd Jan
- Flights to be booked by 22nd Jan
- AI UKI funding applications to be submitted by end Jan
- LA accommodation booked
- Continue optical tests
- Further research is planned with experts on our chosen photographers, into the history of Yosemite photography, history photographic techniques and the locations we intend to scan.
- Detailed expedition planning and logistics (in LA pre/post expedition and in Yosemite itself)
- Follow up with Hyundai regarding our possible vehicle
- Follow up on logistics for our van should we be granted it by Hyundai (parking, insurance etc)
- Follow up on US workshop space

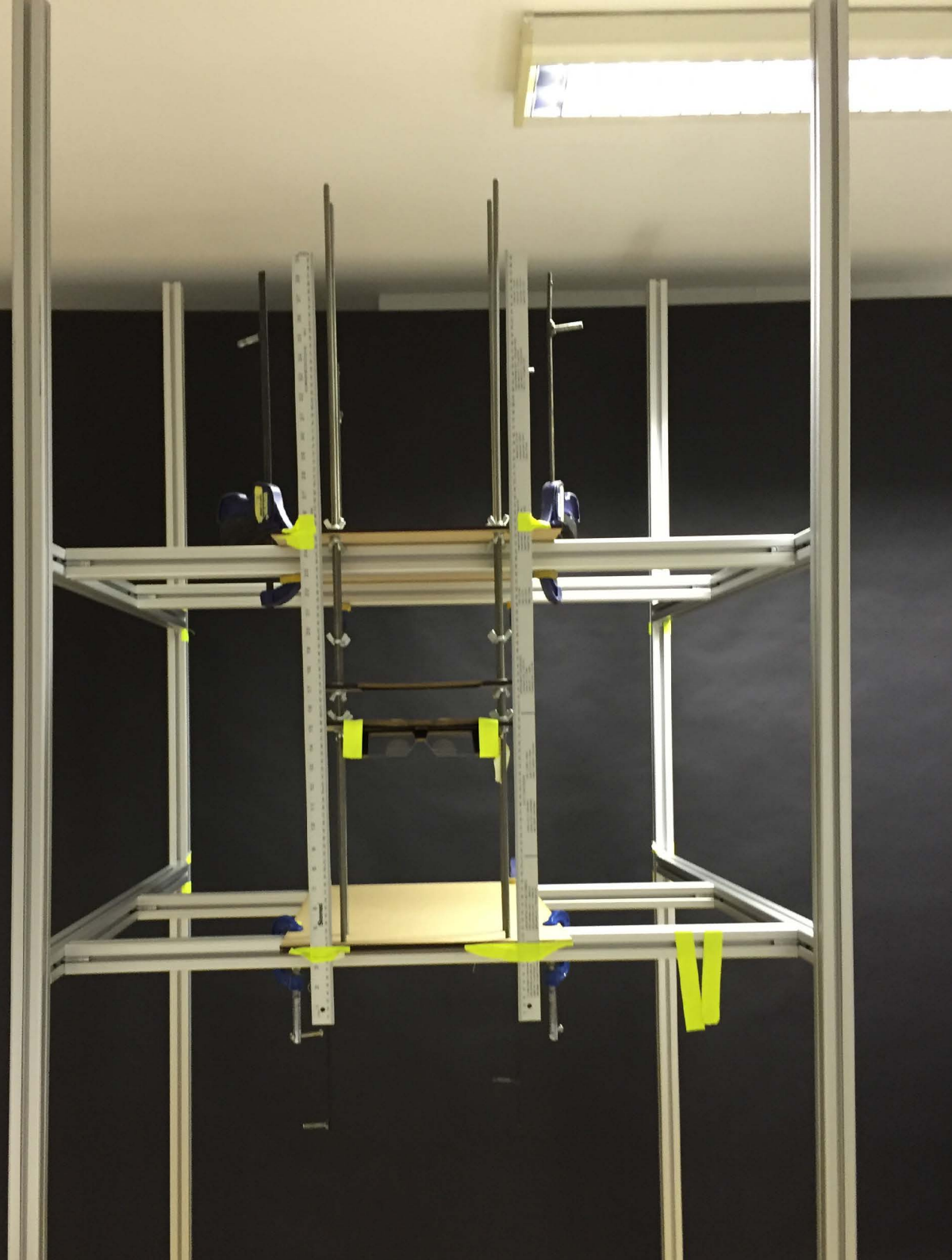
Milestone 02	Description	Number required	Rate	Total
EXPEDITION				
Hotel nights - Pre expedition	A few pre booked nights pre expedition			
Hotel nights - Post expedition	A period of time when part of the team debreif and tidy up the van post expedition			
Food	Subsistence for all the team on the expedition			
Expedition Days - People	Payment for the team on the expedition			
TOTAL				



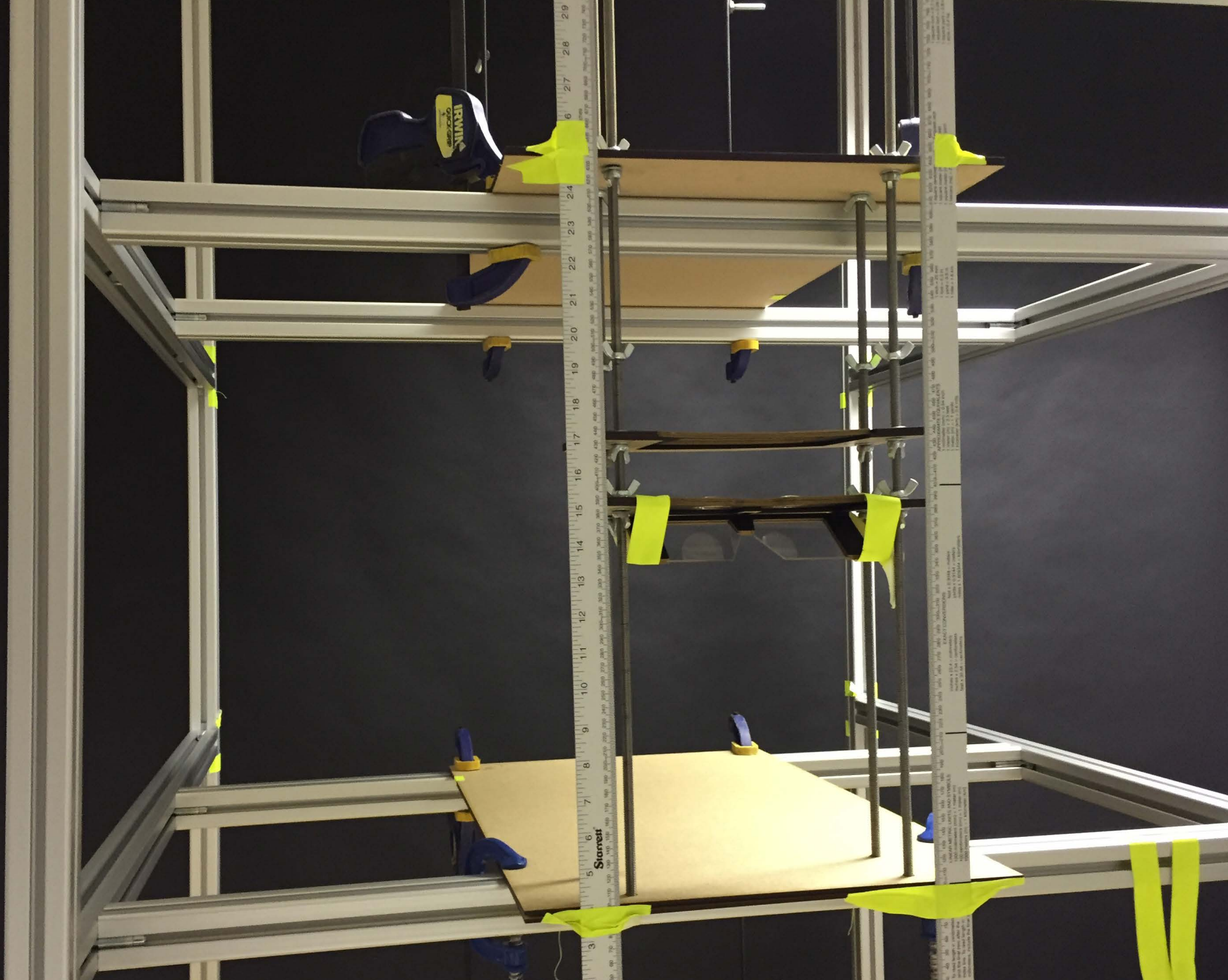


Optical components, lenses mirrors, glass plates





Optical testing rig



Starrett

6 27 28 29







Single eye projection

PROJECT TIMESCALE		
Event + Activity	Dates	Notes
<u>PLANNING + RESEARCH</u>		
Research and planning	August 2015 to April 2016	
Expedition bookings		
Collaborator contacts (Tech + Conceptual)		
<u>EXPEDITION</u>	(ALL 2016)	
Team A Fly UK - LA	1st May	
Team A LA Setup	2nd / 3rd May	
Team B Fly UK - LA	4th May	
Depart for Yosemite	5th May	
Setup Camp	5th / 6th May	
Recce Days + Detail Planning	7th / 8th May	
Scanning Days	9th - 13th May	
Scan Days + Begin Processing at Base Camp	14th - 15th May	
Camp Fire Forest Cinema Event + Discussions	14th - 15th May	
Return to LA	16th May	
Team B Depart for UK	18th May	
Team A LA debrief + van disassemble	17th - 20th May	
Team A Depart for UK	21st May	
<u>UK DATA PROCESSING</u>		
Period of data processing + visual creation	May - June	
<u>PRODUCTION + FABRICATION</u>		We are assuming this part is funded by another grant / source
Extended period of data processing + visual creation - UK	May - Aug	
Projector Testing + Test Rig Building - UK	May - Aug	
Team A Fly UK- LA	20th Aug	
Van Preparation + Fabrication	20th - 30th Aug	
Assembly + Installation	1st - 15th Sept	
<u>EVENT</u>		
Team B Fly UK to LA	14th Sept	
1 or 2 day series of talks and discussions	16th / 17th Sept	
Van as the focal point for these talks		
Team A + B Fly back to UK	18th Sept	

# ScanLAB Projects

**TO:** Amy Heibel  
Vice President, Technology, LACMA  
5905 Wilshire Blvd  
Los Angeles  
CA 90036

RE: Invoice for: Art + Technology Grant

Job No.	Description
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094\_LACMA\_ Art + Technology Grant  
PostLenLand Third invoice for [REDACTED]

TOTAL

FROM ScanLAB Projects Ltd

TSB  
ScanLAB Projects Ltd

TSB

# ScanLAB Projects: LACMA Art + Tech

## Summary Report - Milestone 03

Since our Milestone 02 Report our project has achieved its major objective - the expedition to Yosemite - and we have collected an incredible series of groundbreaking 3D scans. We have also held our initial feedback event at the Amphitheatre LACMA

- Expedition
- Documentation + Media Collaborations
- Further Funding Applications
- Data Processing + Final Artwork

### PROGRESS DETAILS:

#### **Expedition**

- We had a hugely successful trip to Yosemite - an experience we will all savour for a lifetime and incredibly successful in terms of scan collection
- Over 150 individual scans were captured
- Access was incredible and we were able to achieve far more than expected under the guidance of brilliant Rangers in the park

#### **Documentation + Media Collaborations**

- The expedition was covered by our own documentary maker and by Agnes from LACMA
- Our own documentary maker will assemble a short piece by Sept 2016
- This will also inform a 5 minute pitch piece to the BBC and PBS in the hope that the full documentary may be made

#### **Further Funding Applications**

- We have made 5 funding applications for the additional funding required to complete our envisaged artwork for display at LACMA in September
- Result from these funding applications will be received between June and July 2016

#### **Data Processing + Final Artwork**

- We have begun initial data processing and are beginning to explore what the final content will be
- We are also progressing our technical tests
- We have put considerable energy into the 'host' vehicle for the final work - which is now Matte Grey and stripped of rear seating in order for the final work to appear within.
- The vehicle has been fully 3D scanned in preparation for artwork design

### NEXT STEPS:

- Await UK funding application results
- Data processing
- Creative exploration of our findings
- Detailed design and investigation into the final visualisation and experience we will create
- Digital and physical fabrication of this experience
- Continue logistics involved in the US vehicle ownership / insurance / storage
- Plan for September US construction period
- Plan + Schedule US exhibition event

Milestone 03	Description	Number required	Rate	Total
EXPEDITION				
Expedition Days - People	Payment for the team on the expedition			
TOTAL				

INVOICE:

ScanLAB Projects

Project No: 094\_LACMA\_PostLenLands  
Date: 07.03.2016  
Inv No. 100243  
Purchase Order No:  
Supplier Number  
Customer VAT No.

**TO:** Joel Ferrer  
Art + Tech Lab, LACMA  
5905 Wilshire Blvd  
Los Angeles  
CA 90036  
United States

**RE:** Invoice for: Art + Technology Grant

Job No.	Description	Cost
094_LACMA_ PostLenLands	Art + Technology Grant - fourth invoice for [REDACTED]	[REDACTED]
TOTAL		[REDACTED]

**FROM** ScanLAB Projects Ltd  
[REDACTED]  
[REDACTED]  
[REDACTED]  
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[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

TSB  
[REDACTED]  
[REDACTED]  
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[REDACTED]  
[REDACTED]  
[REDACTED]



## **ScanLAB Projects: LACMA Art + Tech**

### **Summary Report - Milestone 04**

Since our Milestone 03 Report our project now has a clear plan for completion and funding in place to achieve this

#### PROGRESS DETAILS:

Following the expedition we have been processing the collected data, designing the final installation and securing funding.

Now Complete:

- Data processing
- Creative exploration of our findings
- Detailed design and investigation into the final visualisation and experience we will create
- Continue logistics involved in the US vehicle ownership / insurance / storage
- Plan for September US construction period
- Plan + Schedule US exhibition event
- Securing of US fabrication funding and final applications for UK Tour

#### NEXT STEPS:

- UK based design and fabrication of final installation
- Purchase of all required components to make final installation
- Preparation of digital content
- Preparation of host vehicle
- Trip to US for final fabrication & installation