

SESSION 2 – 12/09/19 – brainstorming sheets

- Good to keep emphasis on bespoke/artisan market because not reliable supply or commercial quantities (cannot be relied on)
- Set up local gang to harvest/mill (present logs to saleable timber) – timber yards (rather than log dump).
- Urban tree renewal should focus on trees with useful/marketable future use post ‘death’
- 3 models; buy logs and mill spec; mill for ACT contract; harvest/mill for ‘boutique mill’ market (value added)
- Include contractors (all 3) in planning (including plant and equipment)
- Follow specifications to prepare timber and also to client request.
- Difference to commercial forestry → costing of felling already budgeted/spent, irrespective of end use.
- Quality European trees – no longer available in Europe.
- Developing or linking into existing events – Design Canberra or like.
- Lessons from Tasmania
 - High value specialty products/boutique
 - Marketing
- Identify all markets
 - High end
 - Fit out/architectural/decorative

- Pallet stock
 - Landscaping
-
- Government specifications

 - Value add – provenance (history)

VALUE?

MARKET – IS THERE BUT A SYSTEM/MANAGEMENT?

- Re-use as Homes/Hollows
 - Park setting
 - Not on verge

- Re-use and recycle of trees into wood product
 - Affordable
 - Social licence
 - Charm
 - Craft

- Sacramento
 - Population $1/2$ million
 - Tree Foundation
 - Non-profit
 - Education
 - GPS trader

- Replace species
 - Food
 - Productive
 - Olive trees
 - Bush tucker

- Community
 - Government building brief
 - Public art budget 1% brief
 - Rate-payer
 - Special connection LIBRARY/BANK

- Timber grading use
 - Restrict for structural

- Education
 - Children
 - Recycling
 - Sustainability
 - Children
 - Stem

 - Green waste
 - Mulch

 - How do hollows form?
 - Rot disease

 - Carbon sequest
 - Long term vs. short term

 - Urban wood
 - Cards

- Amenity
 - I-Tree
 - What value?

- Ecology
 - Species and biota use
 - Removal of tree species
 - Resting trees (birds)

- Nature Play
 - Environmental benches

- Story/Architecture
 - Cultural value
 - Stories
 - Heritage history
 - Make something or replace new tree with a loss
 - Aesthetic
 - Totem sculpture “insitu art”
 - Ceremonial
 - Habitat
 - Food source
 - Basket
 - Health
 - Shade
 - Spiritual
 - Attached to death
 - Avenue of Honour – military and end of life.
- Designer/Maker
 - Educational/experiences creation “spoon carving”
 - Sensory engage body
- Less Monoculture

HARD COSTS AND VALUE

Raw Materials

Labour Cost

Local vs. National

What do our makers need from value, market etc to be advocates?

Hierarchy of Values

- Environment }
 - Art } Positive
 - Community } re-use
 - Sustainability
- How to value workforce community program in order to return value.
Policy to promote use of wood
- What are the equivalent industries?
- Distilling } all consumables
 - Honey } vs.
 - Wine } trees for generations

- Returning carbon
- Public Space
- The Moment of
- The Linchpins
- Removing the blockages to mutual recognition of value.
- Cultural and non-\$\$ based value
- Wellbeing
- Social – connections = value
- Broker role to liaise and engage
- The story, passing on the message from tree to final product (PR value)

PLANNED CAMPAIGN WITH STAGES

- Non-profits
- Process the asset
- Engage the decision-makers
- Make it easy for Government to say 'yes'
- Weekend sale? (fire wood buyers?)
- Auction
- Pilot/experiment
 - To test value and market.

VALUE

- Could be a (-) cost but keeps the tree in the community
- Give it a value by telling the story
- Dependent on type/size/quality
- Economic wood/biofuel
 - Legislation
 - Market certainty
 - Market volume
- Need to make tree removal less of a liability for the Government and move benefit to the community, whilst making an industry.
- Need a good system to separate timber to go to different uses.
- How does the process work? Tender? But can't have a guaranteed supply.

WHAT IS THE VALUE

- What we believe to be valuable – what controls our belief.
 - Market development
- Is the current value more than the future value.
- The value of the industry
 - Employment
 - Environmental
 - Reduced carbon footprint
 - ⇒local resource
 - Cutting edge environmental practices
 - ⇒bio-fuel/bio-char
 - Lost opportunity if tree not utilised
- Cost maintenance/removal? \$
 - ⇒Overall value of tree = qualitative value
- Community value
 - Biophilia
 - Health
 - City cooling
 - Amenity
 - Protection from storms
 - Wind
 - Water

SESSION 2 – DISCUSSION GROUP

Group Members: Myles, Rachel, Swee, David, Gordon, Roger

(Notes from Yifan

[Tree Value]

- Utilise fallen trees → process → make benefits.
- Value → market short?
- Where do we put value?
- What controls our beliefs?
- Better than chipped chem.
- Value is only what we believe to be valuable.
- Following fashion?
- Variation
- Choose log to removal - new mill?
- Government → sent fallen trees
- Keeping the value
 - Is the current value more than the future value (creating a market)
- The value of the industry
 - Employment
 - Environmental
 - Reduced carbon footprint

- Local resource
- Skilled labour
- Allocate the logs – lose opportunity if not utilised
- Addressed different purpose
- Dead tree → harvest → grade → storage → sell →value add → sell
- Practical thing
 - Education
 - Landscape
 - Product → process design
 - Art design
 - Bio fuel
- Who's doing the grade of wood?
- So we're talking about establishing a market
 - Resources/equipment needed?
 - Land/storage needed?
 - Expertise/labour needed?
 - Market

[Use of safe wood] → playground (equipment → huge involvement)

- How we run a system?
 - 500-600 million → contract mill
- Data collection (map – identify trees → different use)
 - Need someone to categorise the wood (soft wood, hard wood, different utilisation)

- Who has knowledge about timber and trees

- Budget for contract → removal
 - Qualitative benefits? (survey needed)

- Community value
 - The trees make difference
 - Biophilia
 - Healthy
 - City cooling
 - Protection from natural disasters (storms, wind, water)

- Scaling up?
 - What stops the scaling up?
 - Grading the woods/timbers.

SESSION 2 – LOCAL GROWN/LOCAL MADE

- What's already happening around town and how can that be expanded?
 - Key Question: How to achieve local grown/local made economy?

- How would a system work? Government assets; how can that happen?

- Re-framing the conversation. Ecological footprint. Timber furniture is in the Top 10 things people buy. Can that be leverage?

- What are the stories? How do we tell those stories?

- Scaling up. How does that happen?

- Supply and demand is a big mess.

- Grading some logs high grade – some pulp. How to deliver to right distributor?
- Money is a big factor – stumpage.
- Public education: What does the public actually want?
- Value: need willing providers and willing buyers. Do we have the market?

SESSION 2 – DISCUSSION GROUP

- What is the value of the wood/trees?
 - Value is what we believe is valuable and what controls our beliefs. Some might value the habitat; whether dead or alive; the market development to match the value of place on the tree; is it worth more to harvest it now or in the future?
- Value of the industry
 - Not just the wood but value in creating employment;
 - Reducing carbon footprint;
 - Not emitting carbon in transit;
 - Retaining skills in the workforce.
- Could be the leaders in environmental practices and urban forest?
- Lost opportunity if we are not value adding on the timber or utilising it.

- Looking at solid timbers – furniture grade, landscaping grade and biofuel. What is stopping us from doing it now? Processes with local governments; how to sell it and to who?
- Can you guarantee the supply of the timber, certainty of supply so that someone wants to invest in the operations? Say if it is biofuel, chip etc for the other 80% of non-convertible sawlogs.
- Reducing the liability of the government, sharing the liability and even turning it into an economic and ecological positive. Are we talking about a triple bottom line?
- Life and death in city of trees
 - Emissions reduced targets
 - Urban heating
 - Benefits of urban forest

SESSION 2 – QUESTIONS – 12/09/19

- Could there be a witness tree project every year?
 - There is one all the time we just don't exhibit it.
 - Could easily be an annual exhibit.
 - Can the market bare the same theme?
 - Competition
 - Build a gallery
 - Education process

- Policy regulation
 - Wood in buildings
 - Repurposing wood

Focus Questions

1. What's already happening around town and how can that be expanded?
2. How would a system work? Government assets; how can that happen?
3. Reframing the conversation. Ecological footprint; timber furniture is in the top 10 things to buy; can that be leveraged?
4. What are the stories? How can we tell the stories?
5. Scaling up. How does this happen?
6. Supply and demand – big mills.
7. Grading (logs, high grade, pulp) How to deliver to the right distributor?
8. Public education: what does the public actually want?
9. Value: need willing providers and willing buyers. Do we have the market?

WOMBATS

- Cut up a tree into segments
 - values
 - economically
 - environmentally
- People don't want dead trees on their nature strips
- Keeping dead trees in parks
 - artificial hollowing
- Trees have varying values in different settings
- Free mulch (lowest value bi-products)
- Value we don't see → carbon storage
- Sustainability – offering at schools
 - education
 - projects
- In-depth cultural knowledge about trees
- 35 different words in the indigenous language to describe your relationship with a tree
- Urban ecology
 - territorial species

- Interest in creative pursuits
 - creating with their hands
 - experiences
- Risk of keeping the tree outweighs the benefits
- Singapore tree commemoration
- Parks mass of productive trees
- Bush tucker
- Stumps into sculptures
- Connotations to tree species planted and developmental stage of CBR
- No nationally standard tree valuation method
- itree software
- Architecture
- Recycled timber from buildings for architecture
 - urban timbers?
 - worn and torn look
- Speciality timber
- Not a lot of wooden art in CBR (a lot of art none the less)
- Levies for recycled timber use

- Small business and urban timber use
- Oversupply
 - Landscaping → art
 - nature play
 - buildings
- Timber for landscapes

SACRAMENTO TREE FOUNDATION

- Grading timber
 - Tree comes in, types of acceptable wood
 - Demonstration projects
 - Trees taken out, people want put back – put back e.g. as a bench
 - Don't say no to product
 - No real grading
 - Disclaimer → not for structural use
 - People value the tree and understand the life cycle
- People that go to them
 - Competitive
 - Added value with the story of the wood
 - Recommend makers
 - Trees donated
 - Non-profit
 - Cards that have a description of the wood/a narrative
 - working on a certificate of origin
 - current lumbar tracker
- We have a market
 - no system

- needs to be fair to equitable
- Sacramento Tree Foundation
 - need something like this.

SHANE RATTENBURY

- Minister for Climate Change and Sustainability
- Need zero emissions by the middle of the century
- Put emissions targets up to 2045 to stay on track of current emissions reductions path
- January 2019 heatwave
 - mean max 34.5°C
 - 4 consecutive days above 40°
- Transport vehicles not made for this climatically new CBR
- CBR 600,000 people by middle of century
- CBR tree canopy 21%
- 3000 trees per annum loss from urban forests
- Urban heat island effect
 - built up areas up to 8°C warmer in summer
 - temps can vary by 10°C in suburban areas
 - impervious surfaces and few trees = hotter
 - importance of green infrastructure for wellbeing
- Climate dialogue and species for the future

- \$3.4bill = value of urban forestry (preliminary estimate = \$27mil/year)
- ACT Climate Change Strategy 2019-25
- CBR's living infrastructure plan
 - Formalise a tree canopy target 150% (increase from current)
 - Surface permeability targets
 - plantable area
 - new house/building = % of land that needs to have soil and space for deep rooted trees
- Neighbour woods
- Seed to seedling
- Tree care education
- Save the elms
- Sacramento shade
- Reforestation
- Urban wood rescue
 - “what you make from a tree should be at least as miraculous as what you cut down” – Richard Powers →how to make this practicable?
- Urban wood product line by designers
- Language is key to getting buy-in from the community

- Harvest vs. salvage
- Fashion wood
- What are defects in commercial wood _____ character in urban wood?
- Leverage the community to get wood into public spaces.

GWILYM GRIFFITHS – URBAN FOREST MANAGER - INNER WEST COUNCIL

- Urban forest services program
 - A community resource for the community.

SHANE RATTENBURY

- Need more community understanding/involvement to care for private trees.
- “Perfect storm” because of plantings; heat.
 - The Urban Heat Island – CSIRO study – measured a range from 28-41° on a summer morning between shady lakeside (Lake Burley Griffin) areas and industrial paved areas.
 - Green Infrastructure includes green roofs, green walls and lakes etc.
- Living Infrastructure Plan is being released on Monday (16 September 2019). Will have canopy cover target at 50% increase of current; also have a surface permeability target; need a certain % of land not hardscaped on new development.
- As a wealthy city on the planet, we need to take the lead in climate.

SAC TREE FOUNDATION – URBAN TIMBER RESCUE

- Want to tell the story of the full cycle of the tree to close the loop – great video.
- SAC very similar
 - Ageing canopy
 - Bushfire risks
 - “City of Trees”
- “When you cut down a tree, what you make from it should be at least as miraculous as what you cut down”. Richard Powers (The Overstory)
- Funded through carbon sequestration grant calculating above ground biomass, tag logs and tag slabs with inventory numbers, QR codes refer them to maps of where tree was cut down.
- Storytelling is at the heart of UWR. Telling the story of a tree’s second life, creating tree to table stories.

BETHANY

- The Language of Urban Wood – the language you use creates meaning and is KEY to getting buy-in
- Never say Harvest → that means extracting for profit - say salvage → that is intercepting something that would be wasted.
- Stories in urban wood – what in commercial wood = defects, in urban timber is character.

- If you can make people feel and connect to the wood, everything else disappears.
- If you have to cut trees down, can put that exact wood back into the building to tell that story.
- Connect people to a sense of place and to their community. Then can talk about the other benefits, the canopy, the carbon sequestration, etc.

GWILYM – FOREST MANAGER – INNER WEST COUNCIL, SYDNEY

- Program – The Urban Forest Series
 - They are community assets, so what can't they become a community resource?
- 1st tree – Himalayan Cedar was too magnificent to not retain.
- Look at Sydney's Botanic Gardens 'Kauri Project'.
- 'Extensive documentation of the removal, including GoPros on arborist helmets. (Richard Parsons runs the mill in Blue Mountains, outside Sydney).
- Set up classes at a Maker Space – a community space to make things.
- Developed a set of courses – The Urban Forest series.
- IDEA – There needs to be a Maker Space in the Arts Precinct
- The DIY Dinner – everything was made at the Maker Space; celebrating these crafts all coming together.
- Learning sessions for councils

- Organisational maturity and desire (not core business)
 - Technical knowledge
 - Access to a sympathetic mill
 - End use of the product: councils need to consider what is
EQUITABLE and in line with community
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- Are we hitting the moment where “The Tree” is becoming or able to become as big a rallying point as “The Automobile” or “The Space Program”.
 - Momentum and attention growing because of climate change and die-off; appreciation growing.
 - Emotional connection
 - We need to develop programs where the community will water the trees.
 - Community needs a moment to mourn when a tree needs to be removed.

NEW HOLLOWS HABITATS ABN 811-626-42972

Product Design Service

Raquel TFN 171 759 296

436 675 217

KATE AUTY – 13/09/19

- There are scar trees in the suburbs – another type of Witness Tree. Some are Coolamon Trees; the bark would have been used to carry children = cradles.
- John Rhodes – cultural heritage of Wanniasa Scar Trees.
- Current upsurge in interest in Circular Economy → talking about waste.
- Need to start talking about economics; need to start talking about “circular economy”.
- Not just talking about waste; talking about usefulness.
- NSW/VIC calling for EOIs on circular economy; so are other states.
- Argot (the jargon or slang of a particular group) – put circular economy into your “Argot” when talking to polities and bureaucrats.





JENNIFER

- They set up a non-profit to liaise between Government and private; they can advocate.
- Working with city to put language into building regulations around tree removals and urban timber usage.

UWR

- Had to decide WHOM they wanted to be – can't be everyone.
- PARTNERSHIPS – clear expectations and transparent as possible
- Handshake not a great way to do business; had to put agreements into place.
- Work with local mills, don't compete.
- Cal Fire has given them grants on biomass and wood utilisation.
- Logs diverted from waste stream.
 - All logs donated
 - By city
 - By tree removalists
 - By individuals
- The City: UWR's yard is an official "disposal site"; so they can accept trees and divert from the landfill.
- Educating tree surgeons/arborists about what cuts look best. They got excited about bringing their logs to UWR, instead of to landfill.

THEIR EQUIPMENT

-  Woodmizer, LT-70 Elect. Bandsaw Mill
-  Lucas Dedicated Slabbing Mill
-  Nyle L200 Dehumidifier Kiln
-  Vaglio Vacuum Kiln

- UWR is becoming a resource for local wood.
 - Selling to local makers, designers, architects, hobbyists, woodworkers and more ... Artists, architects and builders currently working with National Retailers and wholesalers.
- Full cycle forestry is essential.
- City codes were not written with recycling trees or urban timber in mind.
- Partnerships.
- “Never take a tree, always intercept a log”.
- Tree growing cleaning our atmosphere by capturing the carbon.
- Strive to use the tree for its highest and best use.

BOBBY FURBY – GREATER DANDENONG

Generally uses green timber

- Fences
- Interpretive signs
- Wood for corrections programs
- Upright burial of logs for green walls

- Play areas for dogs
- Raised garden beds ⇒ at women's and men's sheds
- Breadboards
- Benches and logs for kindergartens and do education and picnic benches – nature play.
- Habitat hollow carving with chainsaws; working with ecologists and bushland departments.
- Native bee hotels
- Native Micro Bat habitats
- They have a website and document of “Urban Forest Tree Repurposing Guidelines”.

DAVE BARMON

- Current plan:
 - There were trees planted a long time ago; there was no plan for what would happen; now we have a lot of reactions to a lot of irrational past decisions.
 - Need a better plan?
- People don't want to plant trees because eventually they will be expensive. BUT if we planned properly we could turn a LIABILITY into an ASSET.

- Want to plant enough to keep a big canopy intact.
- Opportunity cost of waiting out investment in timber is a loss because so long a wait where you could have invested in something else.
- What is the linkage of partnerships that needs to occur?
- Who gets the wood? And how is that equitable as a community asset being distributed?
- What's stopping us from being the best example of a full cycle, circular economy sustainable forest in the world?
- What areas require further research?

SESSION 2 NOTES (HANDWRITTEN)

- Art sector
 - Good with soft value, not so good with hard value
 - Tourism, market, dollar value.
- Pine plantation
 - Dollars per tonne → stumpage
 - Don't want to lose money
- Soft and hard value could intersect
- Urban wood salvage
 - Cost of wood
 - How much wanting to pay
 - Labour cost
 - Returning the value back to the community

- Taking barriers that prevent value

- Log – public property
 - Can't sell it
 - Can only dispose of it
 - Engage with supervisors

- Consumer
 - Sacramento wood salvage
 - Log (supply)

- Get good PR

- Need a broker to take the task out of the ACT Government.

- Pilot program – experiment, testing
 - Auction – pickle

- Similarity between urban wood and distillation industry
 - Honey
 - Wine
 - All consumables

- How to tell the tree story?
 - Government policy to promote wood
 - Using public space to use the wood
 - More knowledge sharing
 - This workshop is making a statement

- ANU's Master Plan is the trees are part of it.

- Disconnected → rebuilding the connection
 - Closed community
 - Getting the fenced off people

- International visitor
 - Most go to Parliament House
 - New Buildings
 - Get to some of the historical sites related to the urban forest or trees.