#	Question	Answer
1		I would assume so. The video showed it was able to replicate a delta formation.
	can you use sandbox to study alluvial fans?	Depends on what you mean by "study," but you can definitely demonstrate their formation.
	Does the water in that tank percolate down and create a watertable, or is the plastic media hydrophobic	
2	?	The tables are roughly 6-9 inches deep, so you do get some groundwater movement.
3	Is it possible to incorporate vegetation in the sandhox?	yes, Emriver had a whole cooldox full of different props that could be played with in the model to simulate
	Is the channel evolution model (or the stream evolution model) applicable to all rivers around the world?	The CEM and SEM can represent gravel0bed rivers as well as fine-grained systems. However, degradation
	Do these relationships hold true for gravel dominated braided rivers or should it be applied with caution	tends to be worse in fine-grained systems because bed armouring somewhat limits incision in coarse-grained
4	when working outside of fine grained environments?	alluvial streams.
		During and immediately following restoration, before the wetland and floodplain forests re-establish, solar
	Often we use riparian reforesation and instream shade as an approach to reduce river thermal load	radiation does increase, but the shade comes back with time. But more importantly, reconnecting the channel to its hyporheic aquifer allows river water to flow underground! That's great for cooling it in summer and
5	under the understanding that solar radiation is an important source of river water heating. Can you	warming it in winter.
	speak to the net effects of Stage 0 restoration on river water temp? Does solar load increase with	Thank you Colin. It sounds like the upshot is that Stage 0 is likely to yield net cooler water after veg
	increased water surface area exposed to the sun but is offset by increased hyporheic flow?	reestablishes and hyporheic flow increases. Makes sense.
		Yes, 2-dimensional models are great for simulating the wide, multi-channel channel-wetland complexes
6	Can we model the output on design surface (theoretical surface) as well?	characteristic of returning a river to its Stage Zero condition.
		- generalised templates. In detail every river is unique and to understand and model it the general models
7	Are the stage 0 concepts applicable to river systems worldwide?	must be bespoke to properly represent the river and its individual catchment context.
		Along the same lines, is stage zero applicable to confined, steep streams?
		Yes - measures had to be taken to ensure that habitat and passage for ESA-listed species are not interupted at
8	Were there any ESA complications/issues with that diversion?	any point along the restoration trajectory.
		The SF McKenzie example Kate is now describing is just a few kilometres downstream of Cougar Dam. The dam
		provides environmental needed minimum flows and its water release twoer is used to blend water from
		different depths in the reservoir, so that the river downstream doesn't get to hot for salmon during the
9	How do dams play into the Stage 0 concept?	summer. So river restoration can leverage the capacity of a dam to regulate flows and water temperatures.
	Rivers nave been isolated from there flood impacts (a g channelication layers). Bourses there	
10	'protections' is contentious. Basically - people use floodblains. Restoration is often about compromises	Absolutely - restoring rivers involves making trade-offs as well as gathering in multiple benefits
11	Were any of the temp or productivity measurements taken in the winter?	Yes. At several Stage zero restorations, temperature is monitored 24/7, 365.
	For Grady. Im a fan of your Youtube channel and had seen the full 2 part vid of your sand table work. You	My experience with the tables is pretty limited, but many of the demonstrations we set up were run twice to
	did a comparison of a constant flow evolution vs. pulsing flows to show the differences. Can you	get all the shots we needed. I was surprised at how consistent the tables behaved if you kept the slope and
12	comment on the differences WITHIN treatments as its my view that even within these controlled	flow rate consistent. Many of the shots you see in the video are cut between two separate runs of the same
12	Were any significant natural bazards and their impacts considered when determining the efficacy of the	dento, and you would have to pay close attention to notice the differences.
13	project?	
14		Very good question Wesley. This is a real benefit of this work
	What are some of the positive impacts of restoration in reducing flood risks on downstream	Hi lan Thanks for your reply.Appreciate if case studies could be shared.
	communities?	In the UK, 'Natural Flood Management' involves more managed flooding than flood management.
		Reconnecting floodplains in 'flood suitable' areas, takes pressure off the defences protecting flood vulnerable
		communities downstream. This is the essence of managing flood RISK rather than trying to prevent flooding.
	What were the anthropographic factors that lad to the south fact becoming a sambia river? Were they	Wood removal, beaver removal, dam construction upstream, berming off side channels for riparian tree
15	iust form factors or process factors? If the latter, were they addressed?	narvest, etc. so form and process factors. res, process impairments were analyzed and addressed to the extent
	For the South Fork River, have there been any negative downstream impacts associated with deposition	
	at the project site? (I.e. did it become "sediment starved"?) This is a concern we hear from folks that are	
	skeptical about using this approach in an urban environment (where we've already diminished the	Sediment is still moving through the system, it's just NET depositional. On 7 Stage 0 projects this has not been
16	sediment sources to a river with development).	an issue at all. If infractructure is located too close to the channel, it's going to be at risk from flooding and/or orgsion per so
	What's been your exerience implementing this type of resotration close to critical infrastructure? I'm	The best management solution is to move the infrastructure and relocate it out of harm's way
	finding there's pushback due to the percieved maintenance burden risks to downstream	Where rivers and infrastructure must share the same space, it's necessary to keep people and property safe as
17	bridges/culverts.	the top priority.
		Thanks!
	Is anyong awarg of notable Starg Zaro, type projects in the American Midwart? Sure would be size to	Yes! Contact my old friend Art Parola and my former Doctoral student Mike Croasdaile at the University of
18	have precedent for our regulators, haha	Zero' was even a thing!
19	What would be some of the downsides of Stage Zero Restoration?	Potential short-term impacts such as temperature increases.
	When carbon sequestration was measured at McKenzie, did it take into account potential increase in	
20	methane emissions from restored wetlands?	I'm interacted in the nonally pointer of hermanical inclusion for the second state of
21		i in interested in the panel s opinion of now you can implement some of this thinking to urban areas and degraded streams
	and a state of the	When infrastructure contraints within a valley limit what you reconnect, we start to design Stage 8 projects -
	I m interested in the panel's opinion of how you can implement some of this thinking to urban areas and degraded streams	an anastomosing condition, but connected at a lower base level elevation.
	uceruucu su callis	There is a concept of reclaiming the river and room for the river with a number of examples of reclaiming
		urbanised land to reclaim the floodplains to give the river it's natural room to move and have floodplain
22		The channel is called Practical Engineering, should pop right up
	What is the link to Grady's youtube channel?	Thank you!
		https://www.youtube.com/@PracticalEngineeringChannel
	What are the expected/observed geomorphic effects in the river channels downstream of reaches in	
23	which stage Zero measures have been implemented?	Nost of the rivers where I work are in arrested degradation so they aren't really changing downstream.
		We've done Stage 0 restoration in a stream with a 5-10 cfs base flow. I would argue that by bringing the water
24	There are fish passage concerns for stage-0 restoration in systems with low summer flows but high	table back up, fish passage is actually improved. Lots of wood slows the water down and "stacks it up".
	snowmelt spring flows - how would you consider these concerns?	The answer to both issues to reconnect channels to their floodplains so that there are 'slow water' refuges
		during peak floows and a fully hydrated hyporheic aquifer to to maintain low summer flows and keep water
		cool undergraound.

	Is it preferably to maintain a variety of reach types in a river, some sediment transport reaches, some	
25	stage zero?	YESIII
	Hello, are there examples of Stage O river restoration applied to river/creek diversions at old or	We are implementing the second phase of a project that goes through abandoned gravel mines. The project is
26	abandoned mine sites?	called Finn Rock Reach on the McKenzie River in Oregon
	Much of the presentation has been on natural geomorphologic processes and potential restoration of	
	near natural geomorpologic processes and reconnection of lowflow channel (and is movement) with	
	(across) the floodnlain. Very many of the worlds cities major unban development, and agricultural	
	development exist on floodplains. Does the papel baye any thoughts on how as an industry, we can	
	development exist on hoodplains. Does the partiel nave any thoughts on how as an industry, we can	
	develop better understanding within urban and regional development planning authorities and indeed	Delete de la contra de cité finandale incluite en eterne O in ant fancite la tratage en construction ante la confite fan finand
	private sector developers to better allow maintaining and more importantly adapting to allow for these	Related: In urban, built floodplains where stage U is not reasible, is there any environmental benefit for flood
	processes in urban areas? Should and how do we 'retreat' from planned future and existing urban	retention facilities that pushes water onto the floodplains in areas upstream of the built environment even in
27	development on floodplains?	the absence of channel/floodplain modifications?
	Are there any regulatory frameworks to protect the long-term land use plans of the river restoration area	Yes, in The USA land owners can either sign up for an easement that allows their property to be flooded more
28	from unplanned urbanisation and environmental degradation?	often. Or a non-profit can buy land that is flood-prone and unproductive.
	Are there any regulatory frameworks to protect the long-term land use plans of the river restoration area	
28	from unplanned urbanisation and environmental degradation?	Apreciate your reply Colin.
29	Hi Kate could you share the title of the paper?	
		It's possible to reconnect the channel to the floodplain using low-tech, muscle powered approaches like
		'beaver dam analogues' (BDAs) and 'post assisted logjams (PALS). for these approaches visit Joe Wheaton's
	Could someone expand on the engineering practicalities of creating the channel blockages required to	website at Utah State University. But that type of restoration takes years to decades to be effective. The faster
	kick start Stage Zero reaches? Were there concerns relating to the failure of such blockages in flood	approach is pretty brutal, but it works - you fill in the incised channel using big yellow machines. The US Forest
30	events greater than the design event?	Service have shown that the fish can be back and spawning within months!
	Question for Chris: What is the appropriate level of detail required to model this approach (say in	· · · · · · · · · · · · · · · · · · ·
31	HECRAS 2D) to satisfy fish passage design?	live answered
51	How is the FEMA regulated floodplain and the no-rise addressed at these stage zero project in the Pacific	
32	Northwest?	We've had to design Stage 8 projects in FEMA-regulated rivers to show no-rise
52	how have you monitored instream habitat features at these prejects after construction? Most field	we ve had to design stage o projects in LiviA-regulated rivers to show no-rise.
	now have you monitored instream nabitat reactives at these projects after construction? Most neu	
22	surveys are linear in nature and i could see this becoming complicated in a system with more multi-	
	pranched or ephemeral features	
24	Excellent, thank you! Could I try double or nothing and ask about anything closer to Michigan? Really	Ven en all
34	looking forward to the SEDHYD workshop next week	very cool! Descus bisk flavor see second second by full widdle of the flavor bisk store and second second the intervention
		bleadse nigh hows are spread across the full width of the hoodplain, the stream power per unit width is very
		low. It's a depositional environment, not an erosive one and a really big flood will deposit lots of sediment,
		rather thann tearing up the channels. But the donwstream base level control is important: if there isn't a
		natural downstream control (like a landslide runout, or a geological outcrop, of a tributary fan) then an
	For Wychus Creek example, how do you then control the floodplain from expanding without incising of	artificial one might fulfil that purpose. But it's not ideal. Finding a natural downstream control and grading the
35	the new channels?	channel-floodplain to that is best and safest.
		I'm not familiar with any Stage 0 projects in Texas, but San Antonio was the site of one of the largest
	For Grady, you said you were in San antonio? Are there any stage zero projects or general fluvial	accounter restaration projects of its time in the United States with the Can Antonia Diver. The project is part
36		ecosystem restoration projects of its time in the onited states with the san Antonio River. The project is part
	geomorph practices going on in that area?	of the UNESCO World Heritage Site of the Spanish missions connected by the river. Really worth a visit.
	geomorph practices going on in that area? How did the practioners of Stage 0 restoration convince decision makers, especially in more developed	of the UNESCO World Heritage Site of the Spanish missions connected by the river. Really worth a visit. The only way practitioners and decision-makers come to understand and value river-wetland corridors is for
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37 38 39 40 41 42 43 44	geomorph practices going on in that area? How did the practioners of Stage 0 restoration convince decision makers, especially in more developed or urbanized landscapes? all of the presentation is with condition the floodplain is still green and woods , what is our best action if the flood plain is theres many house that build I know the topic today is focused on restoration, but does anyone on the panel have any thoughts on how to most effectively prevent the degradation of rivers that was shown in the case studies today? Are there policies to manage new development or preserve natural areas that panelists think is most effective? Thanks! Im a fan of the channel and orginally from San antonio, but got into geomorph way after moving. How would you approach modeling a stage 0 restoration in HEC-RAS? How do you pitch this to Rosgen-fixated regulators? Regulators are #1 concern at this point Is it even desirable to model such floodplains with the same granularity that we model 1-D models? What are the outputs one would be looking for in modeling these systems? Cheers guys! Great to see you presenting in this part of the world. PNW pride!	ecosystem restoration projects on its time in the Oniced states with the sain Antonio Neef. The project is part         of the UNESCO World Heritage Site of the Spanish missions connected by the river. Really worth a visit.         The only way practitioners and decision-makers come to understand and value river-wetland corridors is for         them to visit some and realise just how much richer and diverse they are than single-thread streams!         In places where the former floodplain - which is now a terrace - has been developed, restoration to Stage 8 is a         Great option. This was done in central Belfast, Northern Ireland, creating an urban greenway that is loved by         the people who live and work along it.         Protection of wide riverine corridors & wetlands combined with strategies to manage stormwater from         development (with a focus on hydromodification)         live answered         Has to be 2D IMO, and don't expect high precision.         Get them out to visit stage zero         Is it even desirable to model such floodplains with the same granularity that we model 1-D models? What are         the outputs one would be looking for in modeling these systems?         *single channels, not 1-D models