Assigned Goal	Objective	Potential Actions	Challenges	Possible solution	Supportive advancements, research, or tools	Options for advancing beyond "Business As Usual" approaches
Province Corner I / Malertain and saston glant required grows.  Cocystem Integrity, diversity, and resilience	Reforest areas that burned at high severity and are experiencing regeneration failure.	Refine dimate informed prioritization (such as GTR 270); Collect makerial and grow seedings; Implement fuels management for seeding survival; Create pre and post-reforestation stem maps.	Limited capachy in reforestation pipeline, esp. related to planting:  Lack clear guidance for prioritizing areas for reforesting sequela sporticially.  No plan or dedicated resources for long terms seed collection and basising.  Fasis reduction need to be part of the replanting treatment, but how/when to implement in well understand planting an uniform.  Meeting regulator requirements often results in missing the optimal planting an uniform.  There ten't a good dequals aspectific model to helip managers understand likely usedling success/failure	Plan for regeneration lack of success (have a plan to re- plant/second entry):  Cone collection program/Reforestation pipline (i.e., the American rovests effort)	Countilative genetic on gant angular to inform climate smart planting, such as the Adaptive Management Experiments (AMEI) occurring at Mountain Home demonstration state firest	Create a unified master plan that outlines needs, treatment approaches, and monitoring to increase opponuntity for elaborise management.
		Cultivate social license in media, science, and politics; Support the Gant Sequola Lands Coalition and the concept of Learn (science/research work group) Raily (messaging and outreach) and Act (conservation/restoration, etc.)	Lack of messaging that conveys the true vulnerability of sequoias and their specific needs	Develop and fund a communications campaign that is transparent about the degree of uncertainty, risk, and science as a process.	GTR 270; explicit monitoring/experimental design site prep and planting experiment	Host a "matchmaking forum" to connect land management agencies with partners, and funding options with a goal of building more robust partnerships
	Superiment with strategic outplanting	Cultivate social license	Difficult to convey that this is an emergency situation and non- traditional tactics are needed; The sidentifi-(management community has not done a good job of conveying the significant uncertainty involved in responding to climate change and that mistakes are inevitable.	Build a strong case for action by emphasizing the consequences of a no action alternative and support that message with avoided costs analyses.		Engage and connect geneticists with seed collectors and nursery experts from private, state, and federal e.g., LA Moran Placerville, SPI, etc.
		Conduct site evaluations and assessment of current conditions to identify appropriate areas for outplanting	Lack regrows understanding of the conditions needed for sequois southers, so selecting best sites to experiment with planning outside of current range is difficult.	Hedge bets (use different models/approaches)	Need more information on planting mix:  Need to quantify environmental conditions NOW in fire flootprints:  Need more information on fuel loading and management (when to burn, methods, how long to exclude fire);  Need stem map	Speed up and streamline planning and compliance process- create a broad, large scale NEPA.  NICID to identify effective messaging to create social license for managers faced with first decisions, increase opportunities for managing wildfire (rather than suppression).
Brookout Group 2   Create and sustain habitat for terrestrial wildlife in the about and foregivens	Maintain and protect areas that are currently supporting wildlife (e.g. unburned)	Balance disturbance regimes	Taxa will vary in their sensitivity to management-related disturbance	Map high priority biodiversity resources as priority areas to protect during wildfire events		
		Prioritize action in areas of hey/green forest that are at risk of future high seventy fire	Fael reduction activities can pose short-term risk because they cause further disturbance to widdlife,  prescribed burning intelled agid cally due to feasibility (apacity = regulatory restrictions);  Lack of knowledge/gyddance/comensus on how to identify and periorities areas more time need,  Lack of knowledge/gyddance/comensus on how to identify do no harm "areas;  Prioritization of where to treat can depend on ownerships.	Spread disturbances from management out within a watershed over both spare and time;  Protect is plastize (e.g., demning centers or PACs) by implementing fuel reduction treatments or PACs) by implementing fuel reduction treatments outdoor those areas to reduce the possibility of five moving into and disturbing or modifying the key should be possibility of the moving into and disturbing or modifying the key should be provided to the provided by the provided b	Data on wild life use of habitat patches; Decision support tools and optimization models like EBMS and others support working across large landscapes GTR 270 and emerging framework documents and analysis.	Focus on which species are using the green landscape to guide bloodvensity?
	Restore landscape functionality	Restore permeability (ability to move through boundaries) of landscape connectivity	Permeability and boundaries to movement are species specific fectoration may pose negative short-term impacts; Cross-jursidictional planning is complex	tocrease appreciation of snags as habitat that increases landscape permeability for many spocies; increase appreciation of how shrubs can increase or decrease permeability. Protect and develop critical wildlife resources (e.g., snags, artifical covers, caves, and or denning boxes)	Identification of locations that are less climatically stressed and could be more resilient	Designate areas with potential for long-term resilience as "do no harm"
		Create heterogeneity in the landscape at multiple scales through reforestation	Existing models inform where regeneration is limited, not where and how to prioritize;  There's a need to plan for vertical habitat too, which adds complexity;  Cross-jursidictional planning is complex	Identify seeps and microclimates refugial locations	Create a fire-risk database based on the value of the bloddversity resources associated with an area; Accurate post fire data at finer scales	Make preservation of green habitat a priority resource; Use of drones to collect better data on post-disturbance processes
Brookout Group 3   Maintain Forests capable of pentisting in concurrent and future climatic conditions	Prioritize and act in areas that are more likely to persol based on ecological (hydrologic, climatic, etc.) processor	Develop a socio-ecological prioritization process analytical tool suited for the scale of the impacts and need;  Establish a baselline for relevant ecological processes;  Utilize and apply fire;  Identify stands with unique genetic contributions and prioritize them for protection	building support for and use of a tool; Deciding how to address scale during prioritization; The limited window of time to act before reburn; Accomposing different types of landowners and their priorities	Leverage participation from the private sector and or offsen science to improve input data;  Protect green the "stands" as place to do work and be anchor points for future fire registrations.  Protection for the "stands" and stands of the s	Better data are becoming available; Frameworks for prioritization are being developed; Continued research on impacts and opportunities; Origoing research on climatic refugi a for seed and cone collection; Land consecration initiaties and programs	tilig picture restoration planning;  Develop and promote inquentives for protecting and establishing founders stands on princele lands;  Balt team for rapid assessment and response for restoration assessment and causessment and cause to the control of the
		Use founder stands (from remnant green stands and established plantings) to facilitate reforestation; streat the perimeter surrounding remnant green areas and manage for resource benefit in fire	Providing protection may conflict w/restoration processes; Getting access to land; Not all green areas are of equal value/benefit - need a way to prioritize among those			
	Create opacity sufficient for maintaining and supporting the scale of the reforestation need and associated actions	Create an immediate/rapid reforestation response program; invest in investigation tools; the contract the contract investigation investigation in inves	Analysis and permitting requirements for response; Concerns for negative environmental impacts from potential actions lisk hethic dis application, always, or use of fire; Description wants to do "homething" but not all actions may benefit restoration; Limited time to act before reburn	Build collaborative relationships and support for action/reponse before an event occurry, increase data sharing. Document and share success stories;	PostScript models and validation are underway; Conservation Finance opportunities exist for private investment/beneficiar to support efforts; CA private land Emergency Forest Restoration Teams.	BAX team for rapid assessment and response for restoration assessment and action; "Registrating for the glasming that could be immediately evaluated after an event; Additional operations for NEPA; Dataset operating for sharing information and learning across and displaced."
		Increase capacity for providing reforestation materials (cones, seeds, seedlings); Build rebuit enterwhoods of collaboration and cooperation.  Use predictive sowing to make seedlings more readily available than an order-based system.	Lack of skilled workforce to collect cones, grow seedings, etc.;	Contrapportunities for private sector and or citizen science to sentioropate in planning and or contract conveys (e.g., like the CASTRE concess politics) and or contract surveys (e.g., like the CASTRE concess politics) and decidention material or plank involvements and support, california natural st program, incentives for private landowners).  Chitand development:  Leverage technologies (ex., drones and remote sensing):  Leverage existing planned forgoing actions, such as utility tree failing or thinning projects, to increase upon contracts or confidenting converse for confidenting converse for confidenting converse for confidential	Technology to get more seedlings from seeds like Somatic embryogenesis (SE): Sedorestation Popiline Partnership investment by Agencies and partnership investment by Agencies and partnership. The ease of developing and sharing apps; Public interest in reforestation;	Operationalize somatic embryogenesis; Significant investments in workforce development; Develop training materials and public participation opportunities
Brookour Group 4   Sustainably manage forests and associated natural lands that are capable operating in current and future climatic conditions	Produce climate-ready guidance to inform reforestation that managers and		Lack of social license for offering guidance when there is some uncertainty			Post-fire restoration NEPA for all of the NFs in the State.
	private landowners understand and know how to use		Not enough seed stock, in part due to limited availability of climbers to gather cones	Invest in research and development to develop drones capable of collecting cones	Unprecedented federal funding in USFS	Long-term staffing investments, including backfilling retired positions and creating pathways for growth to attract early-mid employees
	Restore climate resilient forest conditions	Reduce fuel loads	Lack of skilled, funded, and permanent/dedicated workforce	Permit federal and state management agencies to hire more FTEs and at competitive salaries, benefits, and location flexibility	Drone technology to light large scale prescribed fires and or collect cones	Add a line-item in national USFS budget for public education and interpretation
		Replant with climate-adaptable species	Managing for multiple benefits is hard and resource intensive	Increase awareness, partnering, and communication between land managers and benefiticaries to build support for resources (e.g., offering better incentives and more effective information campaigns)		Institute policies that remove liability and threat of punishments (real or perceived) to encourage USFS line officers to embrace reasonable risks that offer benefits