Spokane Urban River Experience SURE



The WHY

Spokane has a world-class set of <u>Natural Assets</u>, <u>Built-out Amenities</u> and <u>Public Spaces</u> in its Urban Core

- Largest Urban Falls in the Nation
- Nationally Ranked EXPO-Legacy Downtown Park
- Unmatched Entertainment, Sports and Tourist Facilities
- Nationally Recognized Universities on Both Sides of the River
- Incredible Urban River Trail System
- Kendall Yards Award Winning Downtown Community

The WHY

By bringing these community assets

<u>Together</u> under one <u>Partnership</u>, we can better maximize our <u>Economic</u>,

<u>Environmental</u> and <u>Quality of Life</u> outcomes for the Spokane region

The WHERE



The 3-mile stretch of the Spokane River from the Sandifur Bridge to Iron Bridge, and the neighboring public spaces along that stretch.

The HOW



OPartnership Options Considered

- ONew Organization i.e. Conservancy or Non-Profit
- OExtend Riverfront Park Boundaries to Encompass 3-Mile Stretch
- OPartnership/Consortium of Key 'Owners'

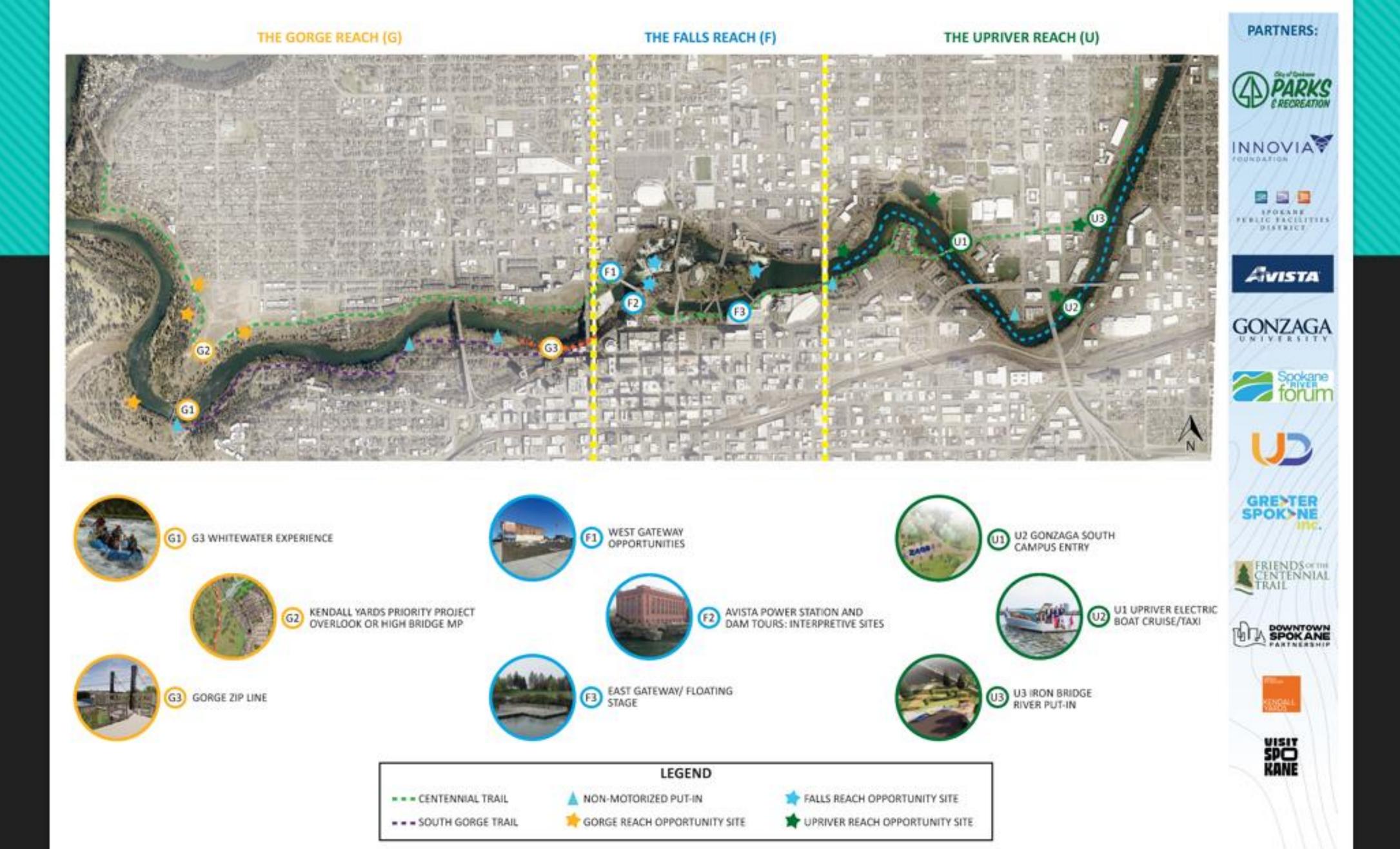
Current Partners

- O Parks
- Public Facilities District
- O Avista
- Gonzaga
- University District
- O Kendall Yards
- Innovia Foundation
- Centennial Trail
- River Forum
- Downtown Spokane Partnership
- Visit Spokane
- O Greater Spokane Incorporated

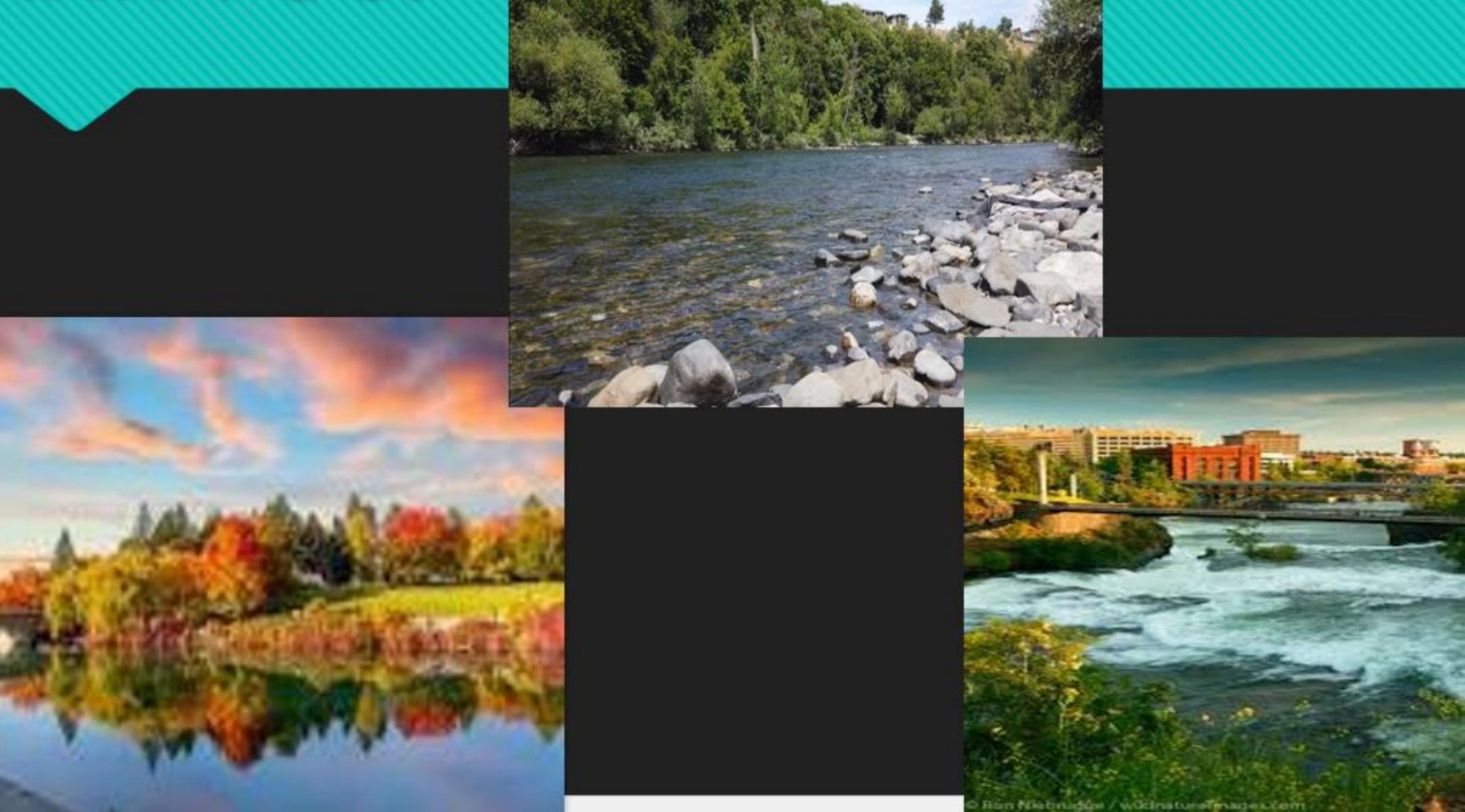


The WHAT - Proposed Strategic Goals

- GOAL 1 Activate the Urban River Corridor with Additional Amenities and Activities
- COAL 2 Brand/Market this Under One Unified Identity
- COAL 3 Address Mobility to Connect To and Thru this Corridor
- O GOAL 4 Increase Emphasis on Safety throughout Corridor
- O GOAL 5 Continue to be Good Environmental Stewards of these Assets



THANK YOU!





PLANT SCHEDULE

SYMBOL CODE BOTANICAL / COMMON NAME

DECIDUOUS / DECIDUOUS

PROPOSED CONFER / PROPOSED CONFER



PROPOSED DECIDIOUS / PROPOSED DECIDIOUS

REFERENCE NOTES SCHEDULE

SYMBOL DESCRIPTION

WAYFINDING

PEDESTRIAN LIGHTING TYP.

OPEN SPACE AREA

PROJECT PROGRAM

- PLAZA / COURTYARD
- SAFETY
- SHORELINE TREATMENT
- ENVIRONMENTAL DESIGN / RESTORATION
- DOCK / GU ROWING TEAM
- COOLING STATION
- CONNECTION
- BUFFER
- LIGHTING PLAY
- VENDORS

COMMUNITY SURVEY

IDEAL SOUTH LOGAN

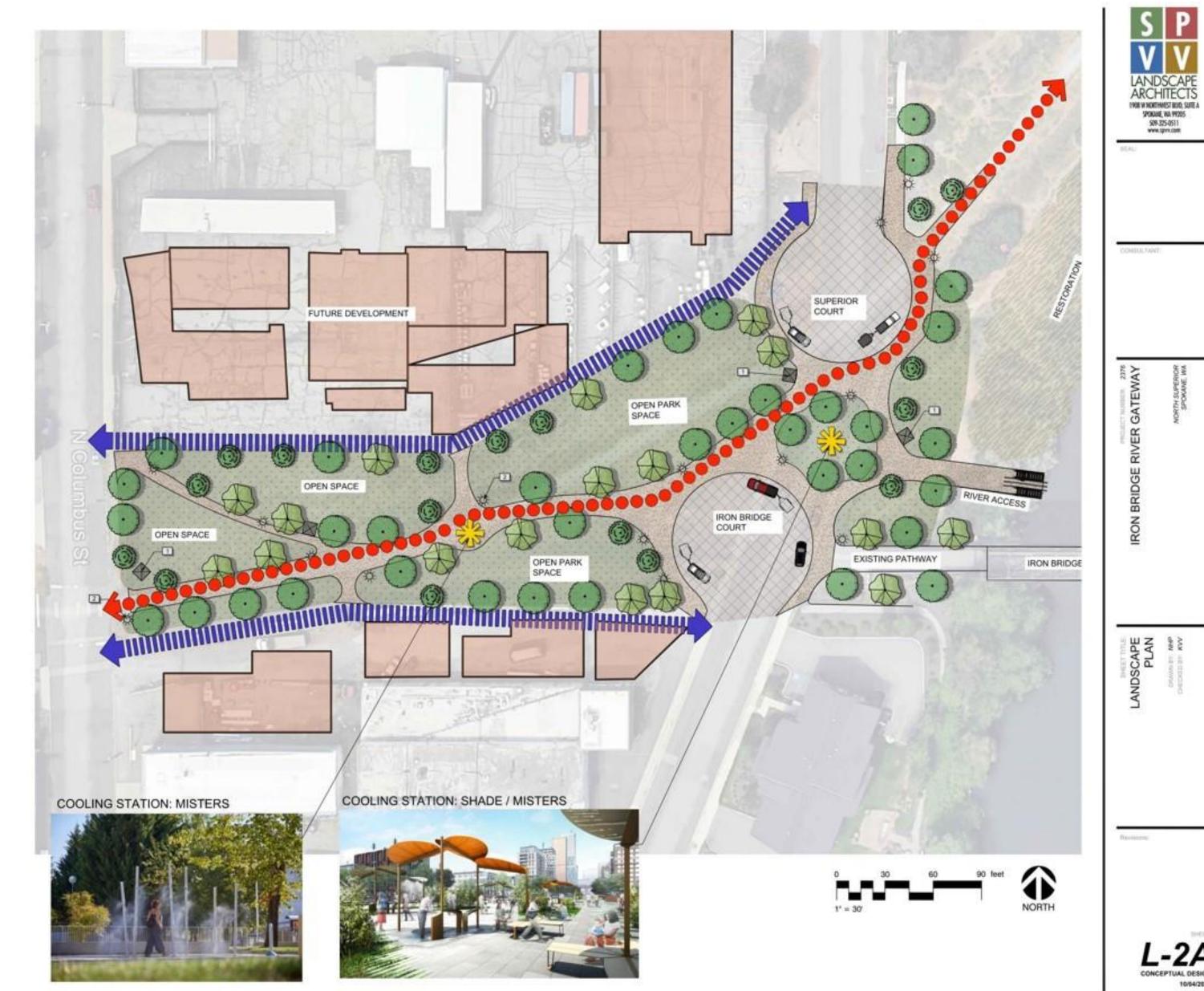
- WALKABLE / ACCESSIBLE
- FESTIVE
- VIBRANT
- SAFE
- ART
- GREEN / TREES
- QUIET / CALMING
- UNIQUE

BARRIERS

- TRAFFIC
- NOISE
- INACTIVE FRONTAGE
- INCOMPLETE TRAIL
- LACK OF DIRECT RIVER ACCESS / RIVERFRONT ACTIVITIES

CONCEPT GRAPHICS SCHEDULE

FUTURE DEVELOPMENT POOR BRIDGE ART WAY FINDING EXISTING NON-MOTORIZED TRAIL SYSTEM MIXED-USED DEVELOPMENT INTERFACE



0.0,00000031190

SYMBOL BOTANICAL / COMMON NAME CONT ACER GLABRUM / ROCKY MOUNTAIN MAPLE MULTI-STEM 6° HT. AMELANCHIER ALNIFOLIA / SERVICEBERRY B & B PINUS PONDEROSA / PONDEROSA PINE B & B

REFERENCE NOTES SCHEDULE

86 EAST - CORT 34 - ST 2006 - CREATE ALL CLOTHE AND THE ACTUAL AND							
SYMBOL C	CODE	DESCRIPTION					
CONCRETE CONSTRUCTION							
	CC-101	16" CONC CURB					
ELECTRICAL							
茶	E-101	16' LED LIGHT POLES					
PAVING							
	P-101	ASPHALT CONCRETE PAVEMENT (ACP CITY STANDARD)					
	P-102	EXISTING ACP PATHWAY					
CONCRETE							
	P-201	CONCRETE WALK					
UNIT PAVING							
	P-301	PERVIOUS PAVERS					
	P-302	PERVIOUS SPECIALTY PAVER/INLAY					
	P-303	RIVER ACCESS PERVIOUS RAMP PAVING					
AGGREGATE SURFACE							
	P-401	RIVER ACCESS PERVIOUS HARDENED SURFACE					
PLANTING							
* * * * *	PL-101	LAWN AREA					
ED ED ?	PL-102	NATURALIZED STORM WATER TREATMENT					
	PL-103	RE-WILDING VEGETATION RESTORATION					
	PL-104	EXISTING VEGETATION MANAGEMENT					
	PL-105	RE-WILDING VEGETATION TREE PLANTINGS					
	PL-106	STORM WATER SWALE					



WAY FINDING/KIOSK

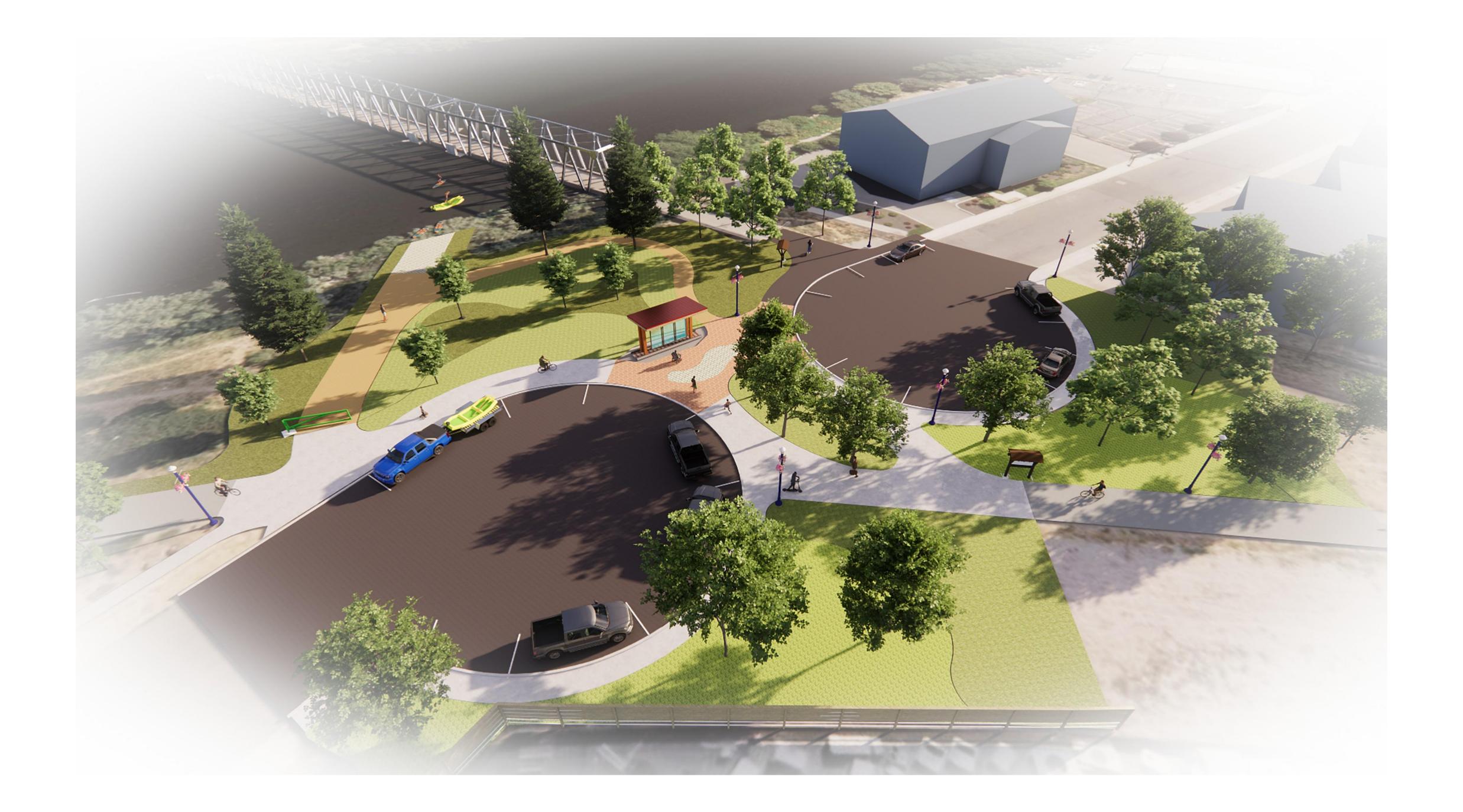


LANDSCAPE ARCHITECTS 1908 W NORTHWEST BLVD, SUITE A SPOKANE, WA 99205 509-325-0511 www.spvv.com

PROJECT NUMBER: 2376
IRON BRIDGE RIVER GATEWAY

SHEET TITLE:
MATERIAL
SHEET

DRAWN BY: MHP
CHECKED BY: KVV





Habitat Protection and Restoration in Spokane River Watershed

Spokane River Forum April 23, 2025

Juliet Sinisterra, CEO Spokane University District

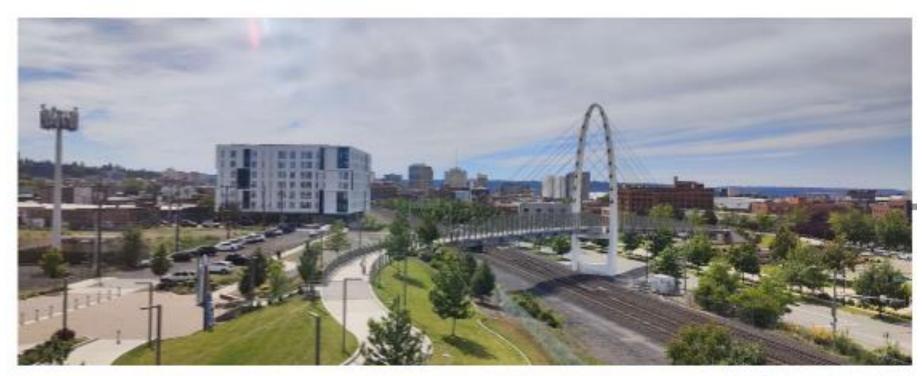
TODAY'S AGENDA

- Spokane University District
- Converging Crises
- Generosity of Nature
- Nature-Positive Urban Design
- How We Design
- Salmon Safe Certification















Built for Collaboration

INNOVATING TOGETHER

The University District is where business and education grow together. Community partners are connected through geographical ecosystem and strong commitment to collaboration with a focus on four key areas:



HIGHER ED AND UPLIFT OPPORTUNITIES



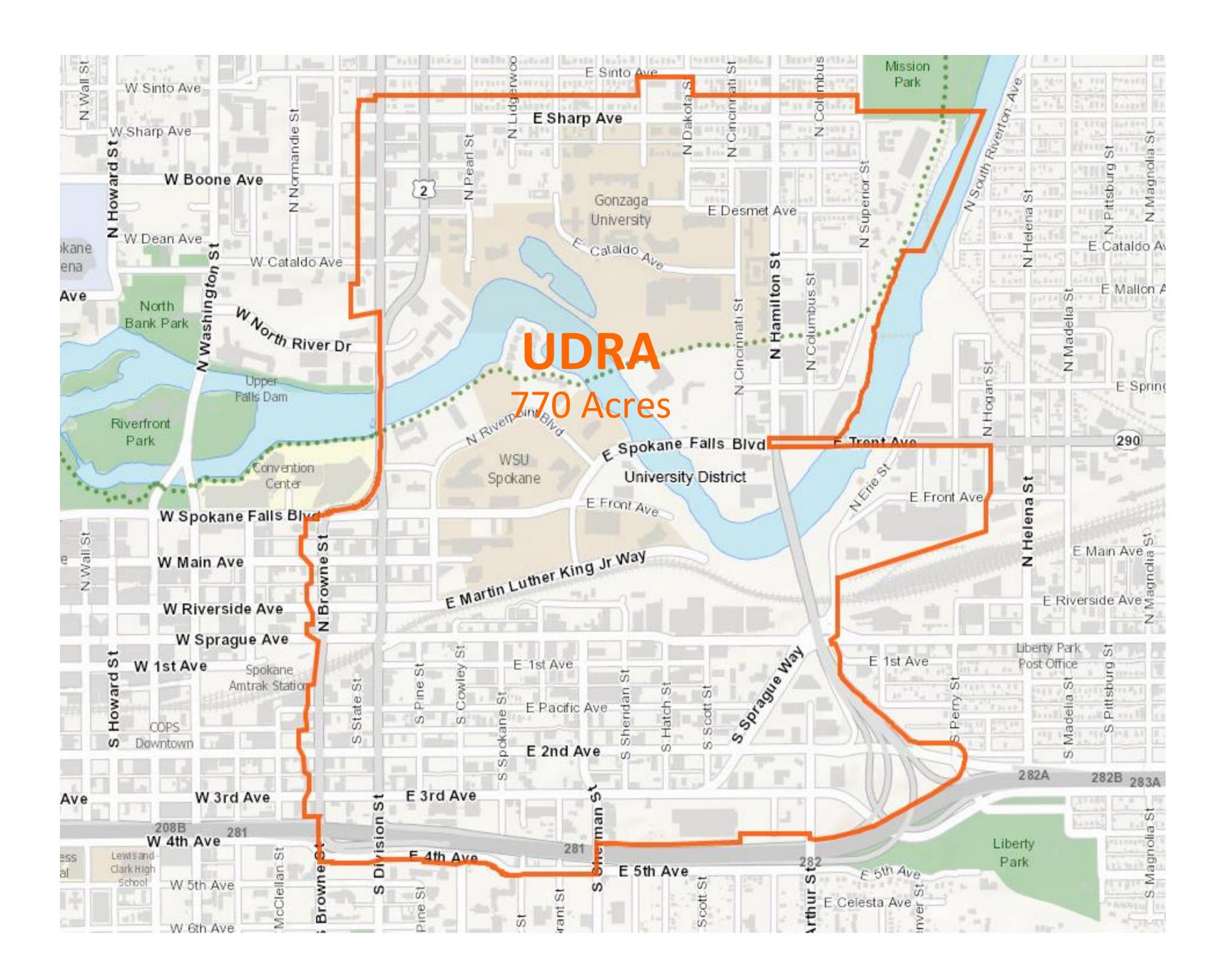
MEDICAL AND LIFE SCIENCES



BUSINESS AND ENTREPRENEURSHIP

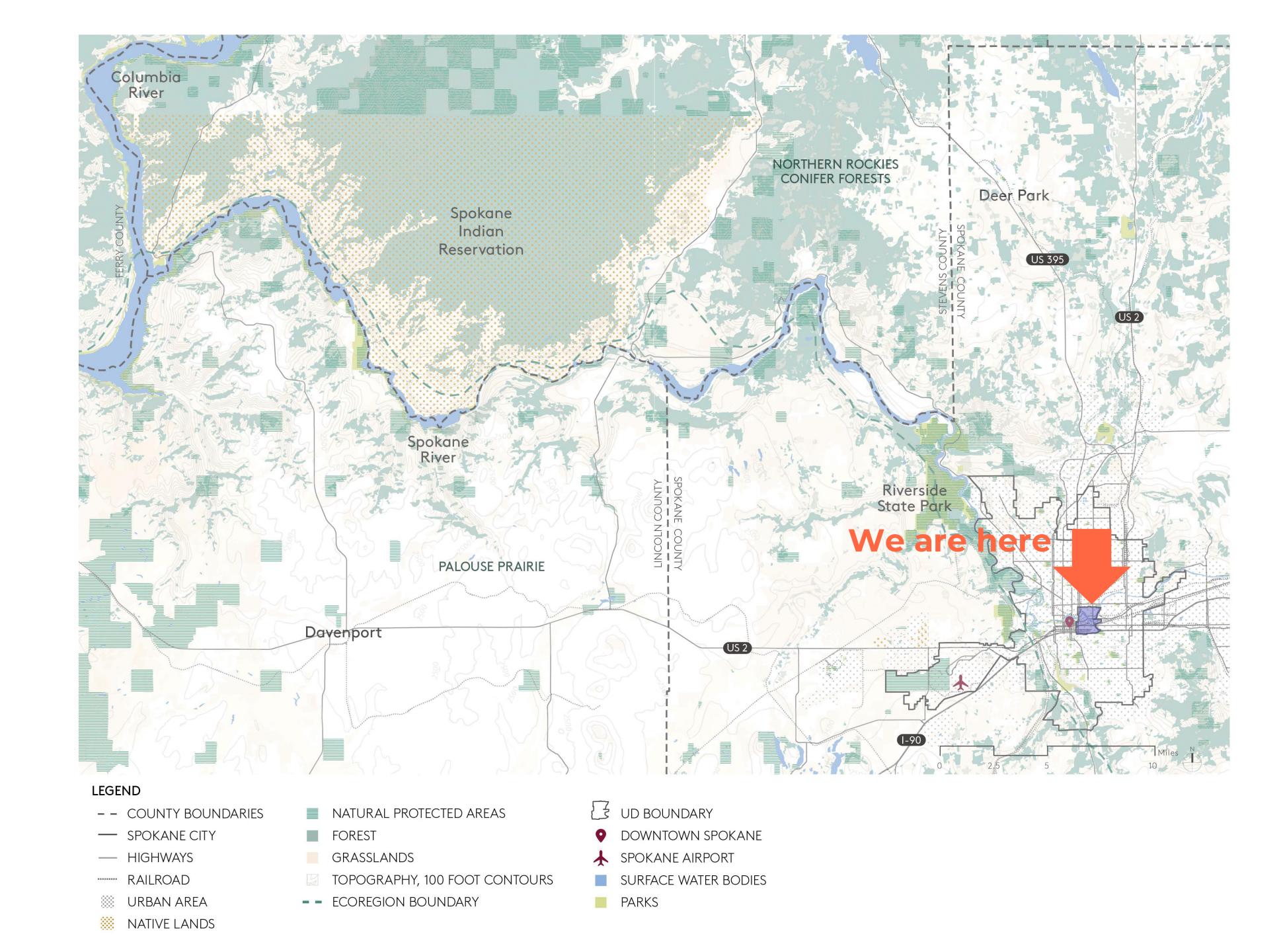


ENERGY AND SUSTAINABILITY





The Bioregion as Eco-Tone

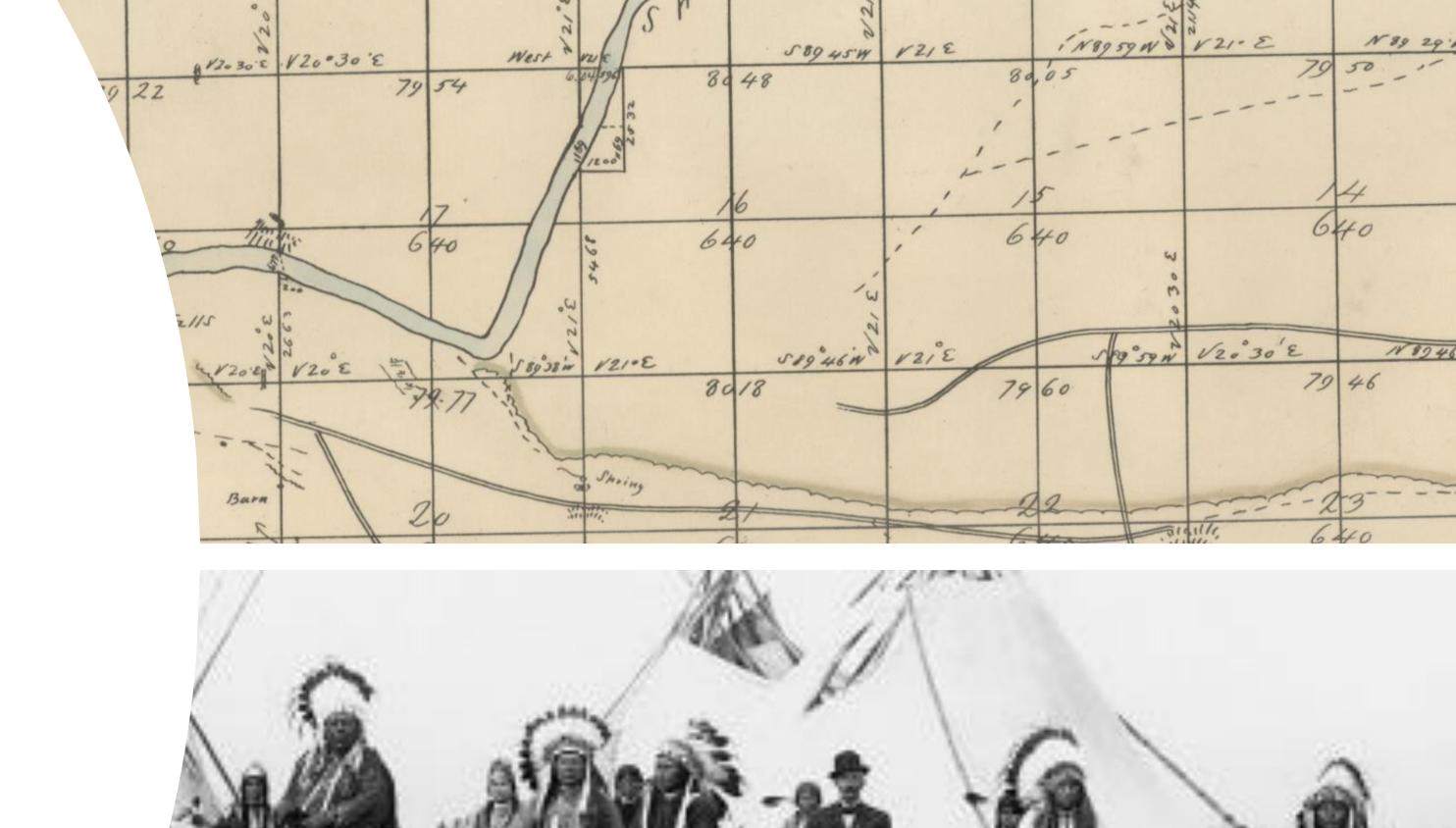


A Traditional Crossroads

63286

 What today is the University District was intersected by important native trails linking the area to the fisheries in the east, the winter camps in the west and trails connecting north to fisheries near Kettle Falls, an intertribal gathering place attracting as many as 10,000 natives at the height of the fishing season

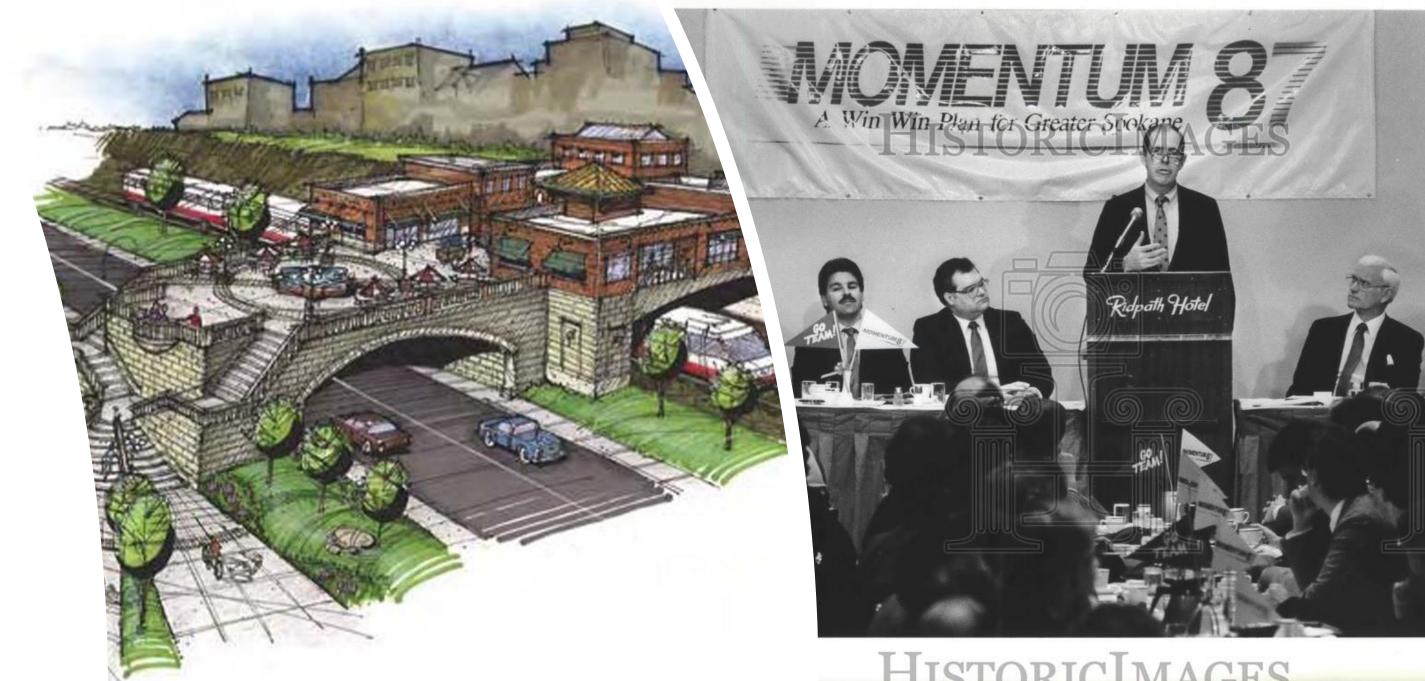
 Cayuse, Palouse and Nez Perce would have traversed through the UD on their way to Kettle Falls, trading with the Spokanes, along the banks of the River



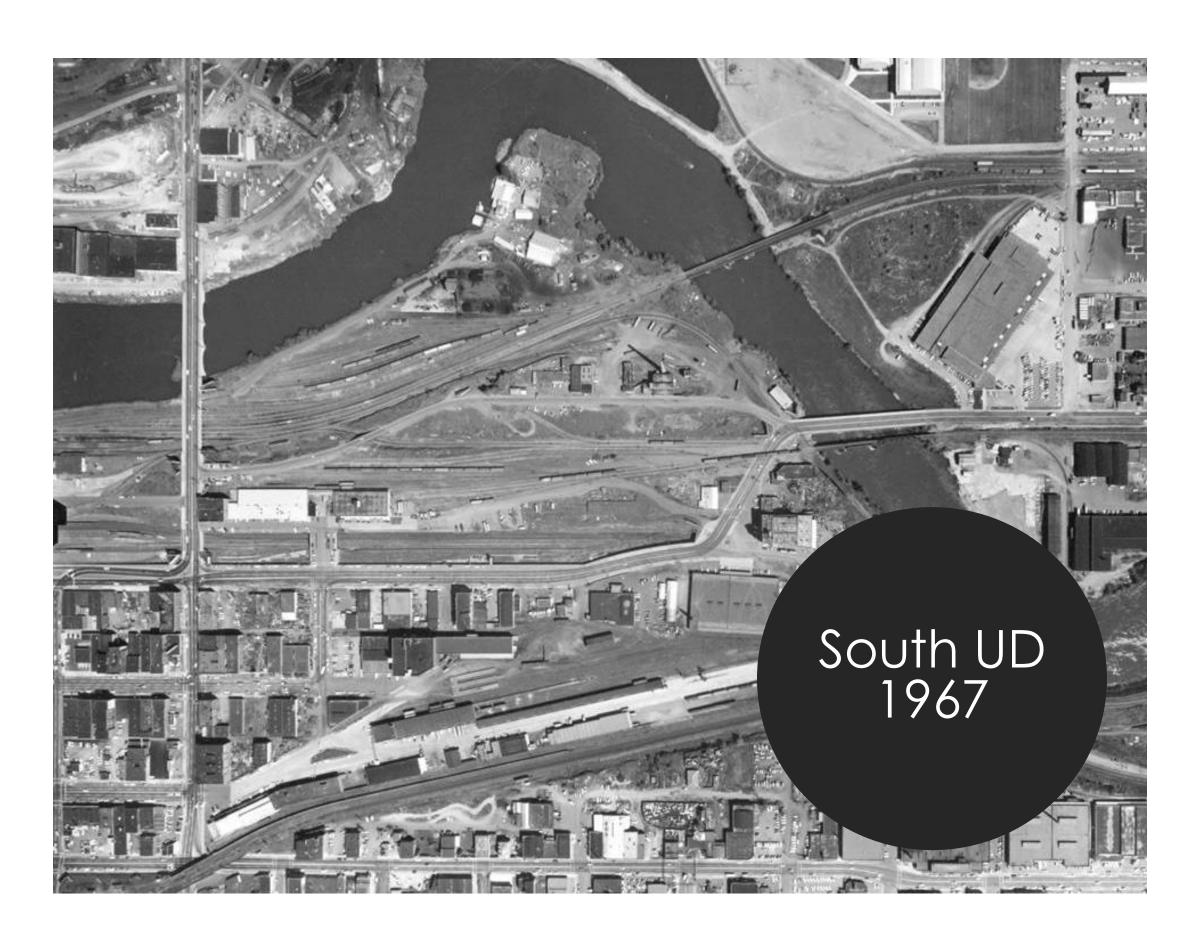


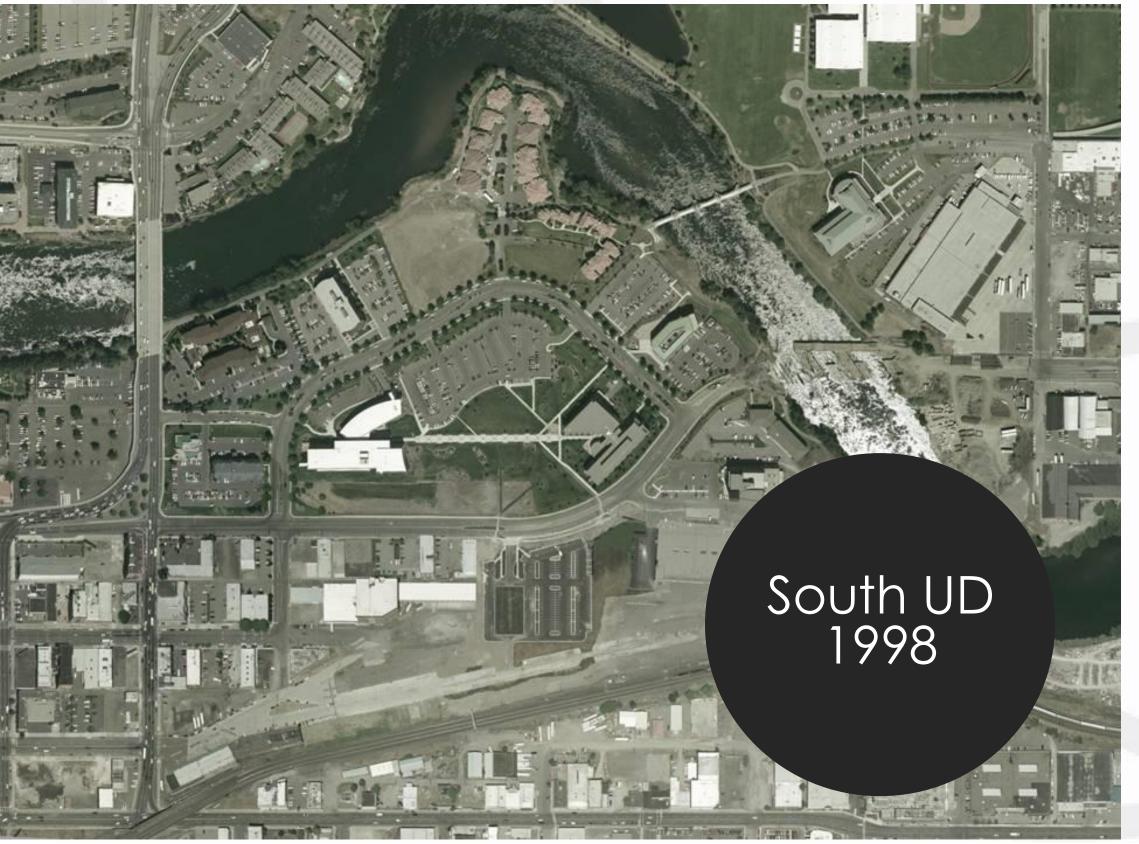
The Rise of the UD

- EXPO 74: Removed railroads from downtown, cleaned up decrepit factories, flop houses and tenements along the River
- Momentum 87: Paul Redmond, WWP; Bill Cowles, Cowles Publishing; Mike Murphy, Central Pre-Mix and Dave Clack, ONB
- 1992 masterplan for the Riverpoint Campus (joint between WSU and EWU)
- 1994: SIRTI opens
- 1996: Phase One Building
- 2002: Health Sciences Building
- 2004 UD Strategic Masterplan
- University District Development Association created in 2009 (501c3)
- University District Public Development Authority in
 2011











Spokane University District: People

Demographic overview

Total population City of Spokane 228,989

Source: US Census Bureau 2020

University District

≈3,548

Source: US Census Bureau Blocks 2020

Addiction State of Emergency

18% increase in overdose deaths 2023-2024

Overdose responses clustered around Division and Brown

Traffic Safety

40% increase in people hit by cars 2022-2023

Hot spots along Division, Brown, and Hamilton, arterials which carry 20,000-40,000 ADT (2018)

Housing Crisis

>2,000 people experiencing houselessness

Jan 2024 point in time count; 54% decrease in unsheltered houselessness; 10% increase in sheltered houselessness; 15% decrease in overall houselessness

SOCIAL VULNERABILITY INDEX

Susceptibility of social groups to the adverse impacts of natural hazards, including disproportionate death, injury, loss, or disruption of livelihood.



Score 31.12 31% of U.S. Census tracts have a lower Social Vulnerability.



tracts have a lower Social Vulnerability.

HEALTH SUPPORTIVE NATURE

NatureScore: Amount and quality of natural elements.

ADEQUATE

Froct 25.03 Score 42.2

Balanced mix of natural and built environmental elements. Modest effort required for immersive nature exposure opportunities.



DEFICIENT

Troot 145: Score 11.9

Low density of natural elements. Effort required for immersive nature exposure opportunities.

Fig. 15 NatureQuant LLC 2024

HEALTH DATA

Fig. 14 FEMA National Risk Index 2022

ASTHMA

Estimated prevalence of current asthma among adults aged 18 and older.



14.5% tract 25.03

13.7% tract 145

OBESITY

Estimated prevalence of obesity among adults aged 18 and older.

PHYSICAL INACTIVITY

No leisure-time physical activity during the past month among adults aged 18 and older.



27.3% tract 25.03



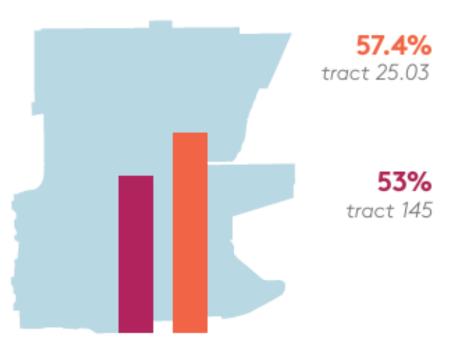
27.9% tract 145

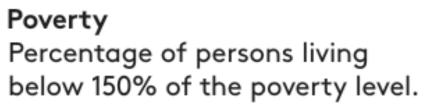
Pig. 11 CDC ACS 2021

Fig. 12: CDC ACS 2021

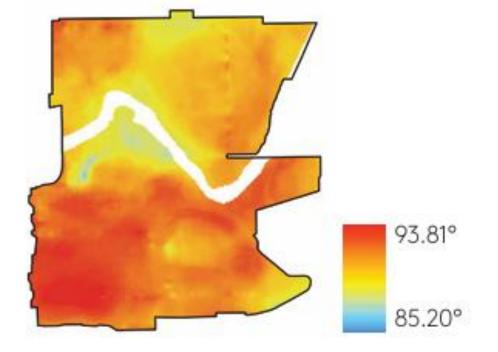
Fig. 13 CDC ACS 2016 - 2019

Spokane University District: Place

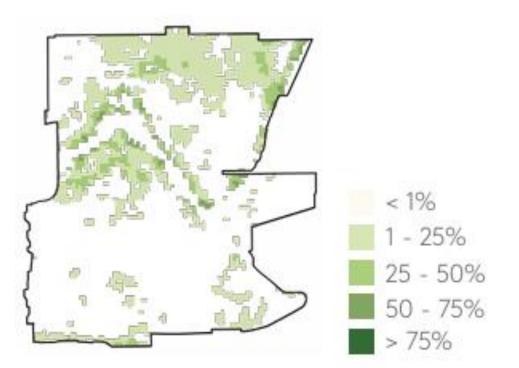




US Census Bureau 2022: 19.1% Source: ACS 2017 - 2021

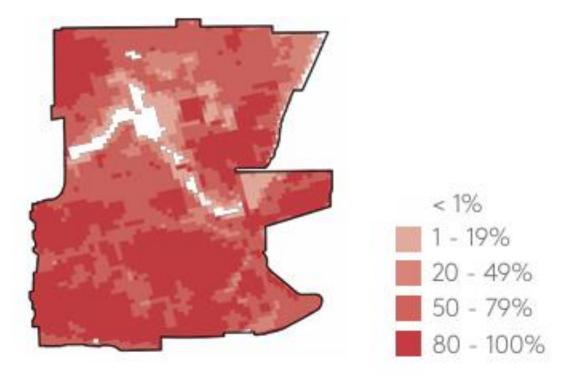


Heat
Afternoon heat
temperatures comparison
Source: Gonzaga Center for Climate, Society, and the
Environment, 2022



Tree canopy
Percentage of tree canopy

Source: USA NLCD Tree Canopy 2021



Impervious surfaces
Percentage of
impervious surfaces

Source: USA NLCD Impervious surfaces 2021

Climate Impact and Environmental Justice

Climate change is increasing the frequency of days with wildfire smoke. Since 2015, Spokane has averaged eight unhealthy smoke days per year, up from zero between 1999 and 2011

In recent years, the number of days in Spokane over 90 degrees has increased: in 2019, 13 days; in 2020, 20 days; in 2021, 44 days; in 2022, 44 days; in 2023, 34 days

In 2021, the Pacific Northwest experienced a heat dome event that killed 112 people in Washington State, including 19 in Spokane

Table 1. EJSCREEN Environmental and Health Burden Data

	Census Block Gr	oup 530630145002	Census Block Group 530630145004	
EJScreen, Supplemental Index	State Percentile	National Percentile	State Percentile	National Percentile
Particulate Matter 2.5	98	99	99	99
Diesel Particulate Matter	97	97	99	99
Traffic Proximity	99	96	99	99
Nitrogen Dioxide	99	98	99	99
Lead Paint	98	95	99	99
Superfund Proximity	97	97	99	98
Hazardous Waste Proximity	99	96	99	98
Asthma	99	97	95	94
Heart Disease	90	71	99	95
Persons with Disabilities	99	99	99	99



CLIMATE CHANGE NOVEL ENTITIES Radiative CO₂ forcing concentration BIOSPHERE Genetic STRATOSPHERIC OZONE INTEGRITY **DEPLETION** Safe operating space **Functional ATMOSPHERIC AEROSOL** LAND-SYSTEM LOADING **CHANGE** Freshwater use Green (Blue water) water **OCEAN ACIDIFICATION** FRESHWATER CHANGE **BIOGEOCHEMICAL FLOWS**

Polycrisis/Metacrisis

"Climate change is a big problem but it is a subset of the larger problem of overshoot. We have exceeded the carrying capacity of the planet. Continued economic and material growth based on renewable energy does not begin to resolve that fundamental reality."

- Arthur Berman, Energy Geologist

"Even if emissions drop to zero in a timely fashion, easing the planet back down toward its natural average temperature will require removing greenhouse gasses from the atmosphere. That will take huge amounts of forest and ecosystem restoration for natural storage of carbon, but also likely technological versions not yet ready for prime time."

Arancha Gonzales, IPCC Commissioner

he risk of climate tipping points is rising rapidly as the world heats up

stimated range of global heating needed to pass tipping point temperature

Our Global Commons.

Big biophysical systems that we all depend on for the stability of the planet

Image from Johan Rockstrom, Potsdam Institute for Climate Impact Research





Fate of anthropogenic CO₂ emissions (2013–2022)

Sources

 $35.3 \text{ GtCO}_2/\text{yr}$

88%

12%

4.7 GtCO₂/yr

Sinks

18.9 GtCO₂/yr



31%

12.3 GtCO₂/yr



26%

10.4 GtCO₂/yr





Budget Imbalance:

4% -1.6 GtCO₂/yr

(the difference between estimated sources & sinks)

EU climate monitor warns global temperature rise breached 1.5 degrees Celsius for first time in 2024

Story by Paul Godfrey • 3w • 🛈 3 min read



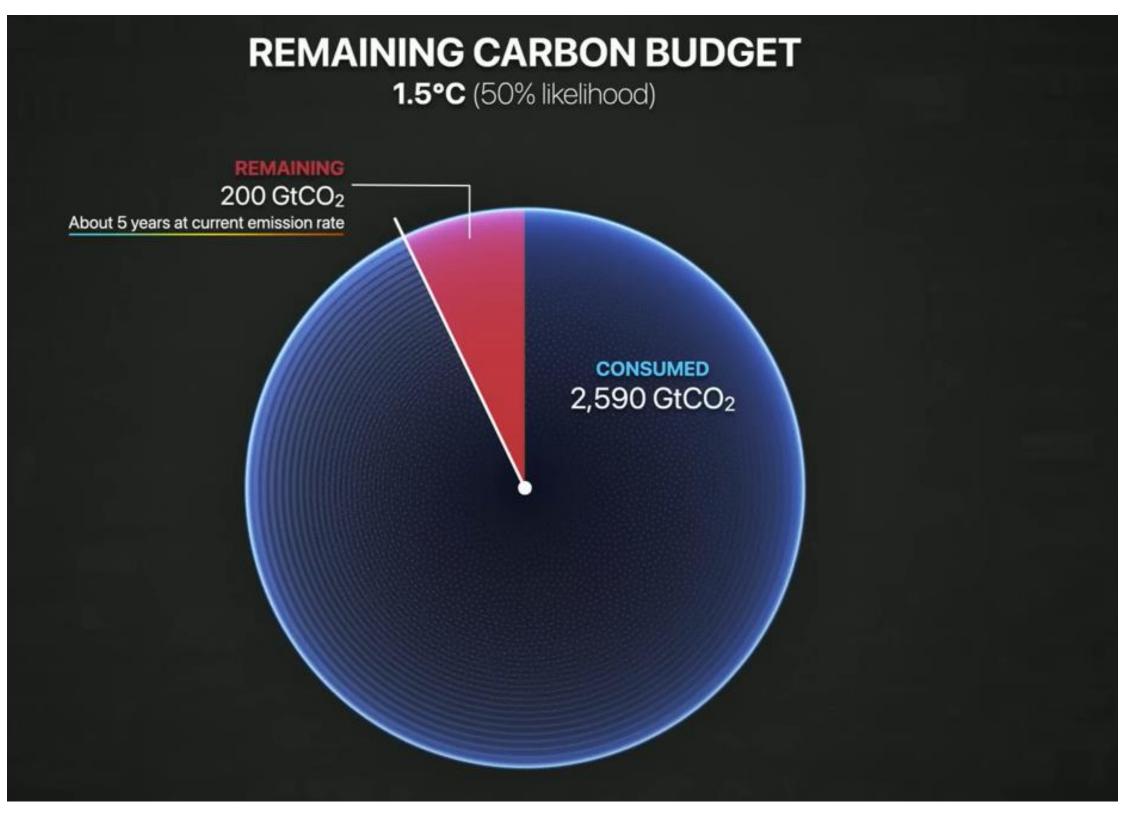
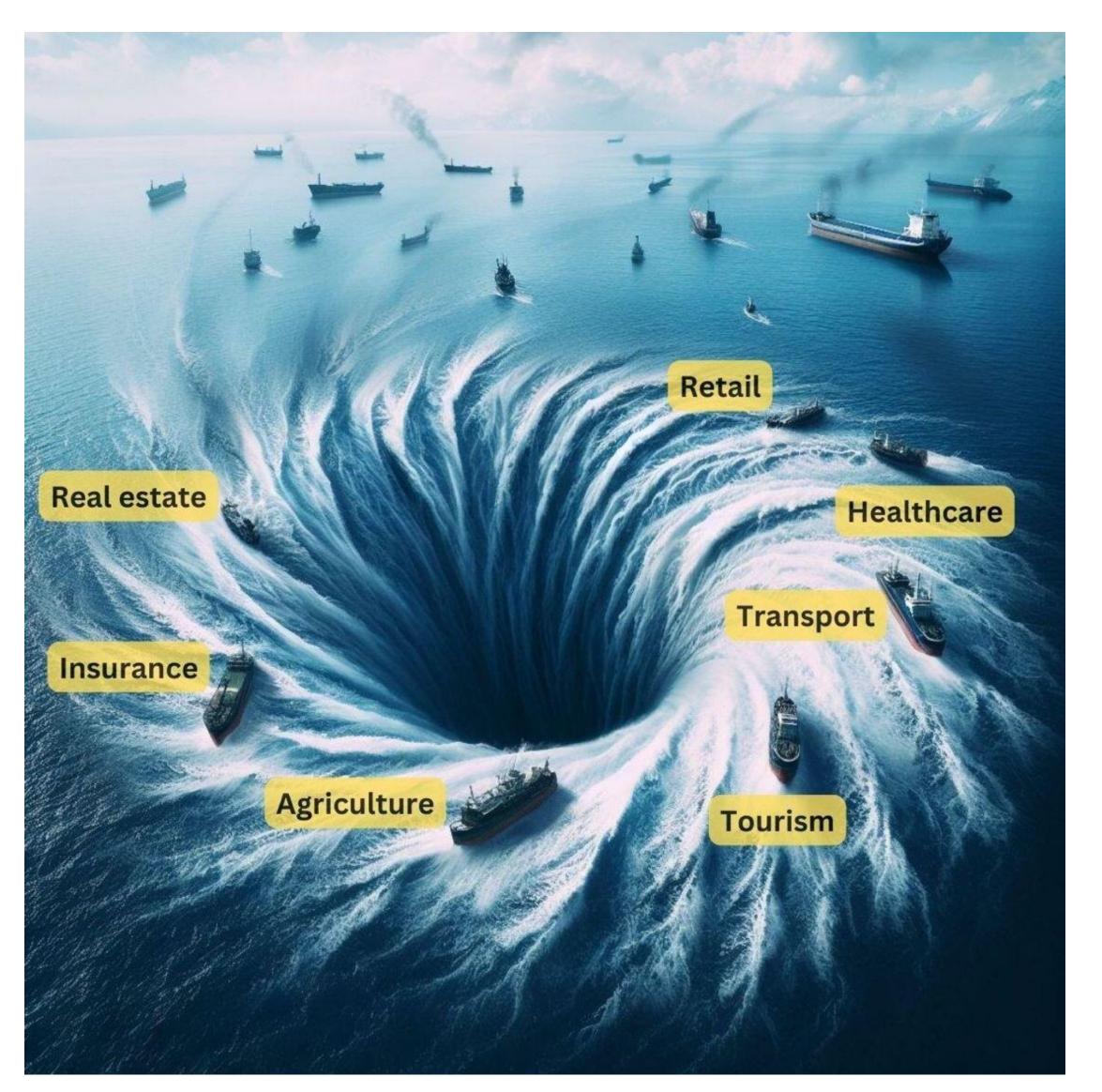


Image from Johan Rockstrom, Potsdam Institute for Climate Impact Research





Climate change-fueled extreme weather could cost real estate market \$1T-plus: Study

Story by Zack Budryk • 4h • ① 2 min read



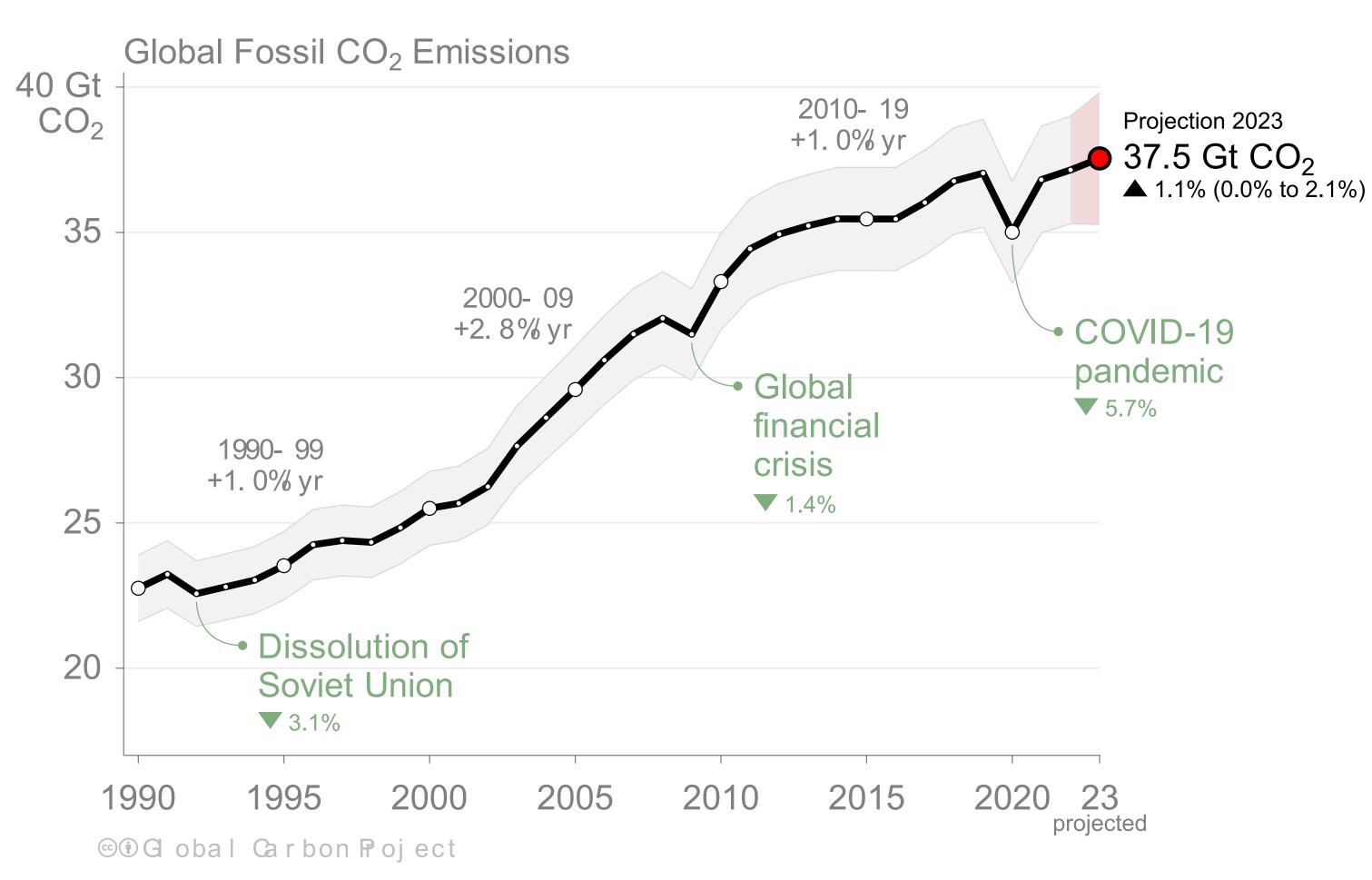


Image from Johan Rockstrom, Potsdam Institute for Climate Impact Research



Global Fossil CO₂ Emissions

Global fossil CO_2 emissions: 37.1 ± 2 Gt CO_2 in 2022, 63% over 1990 Pojection for 2023: 37.5 ± 2 Gt CO_2 , 1.1% [0.0% to +2.1%] higher than 2022

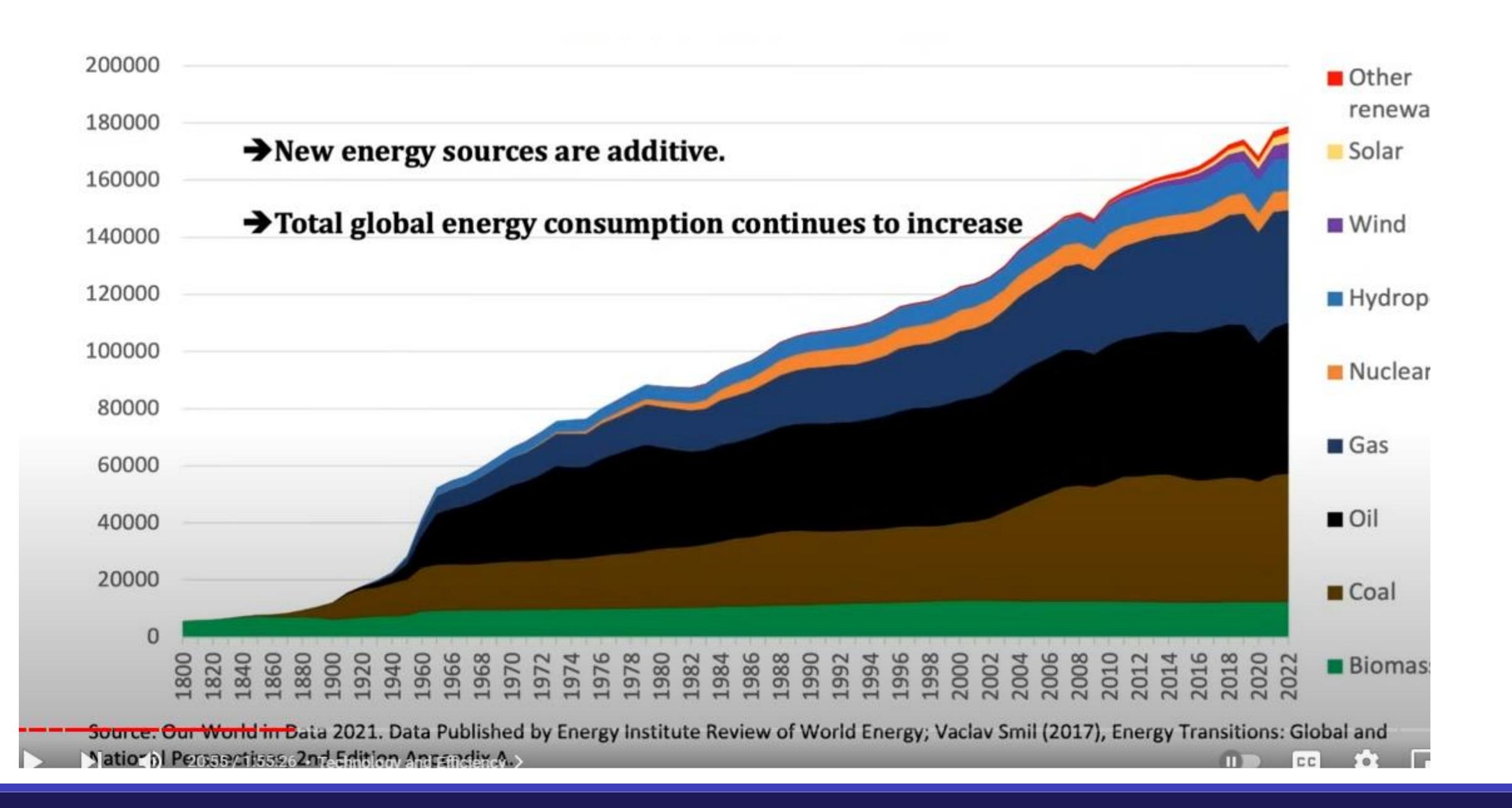




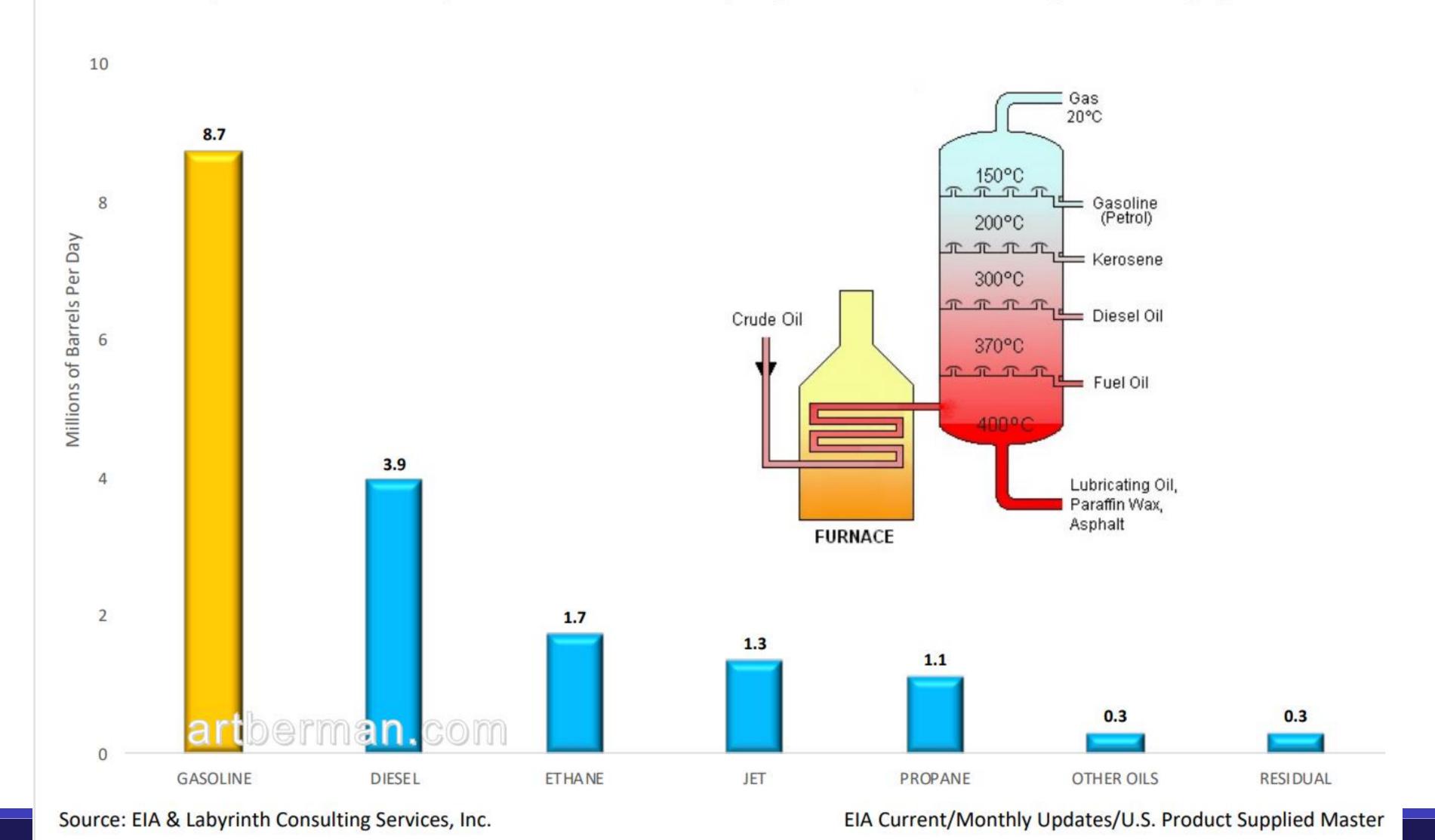
Uncertainty is ±5% for one standard deviation (IPCC "likely" range)

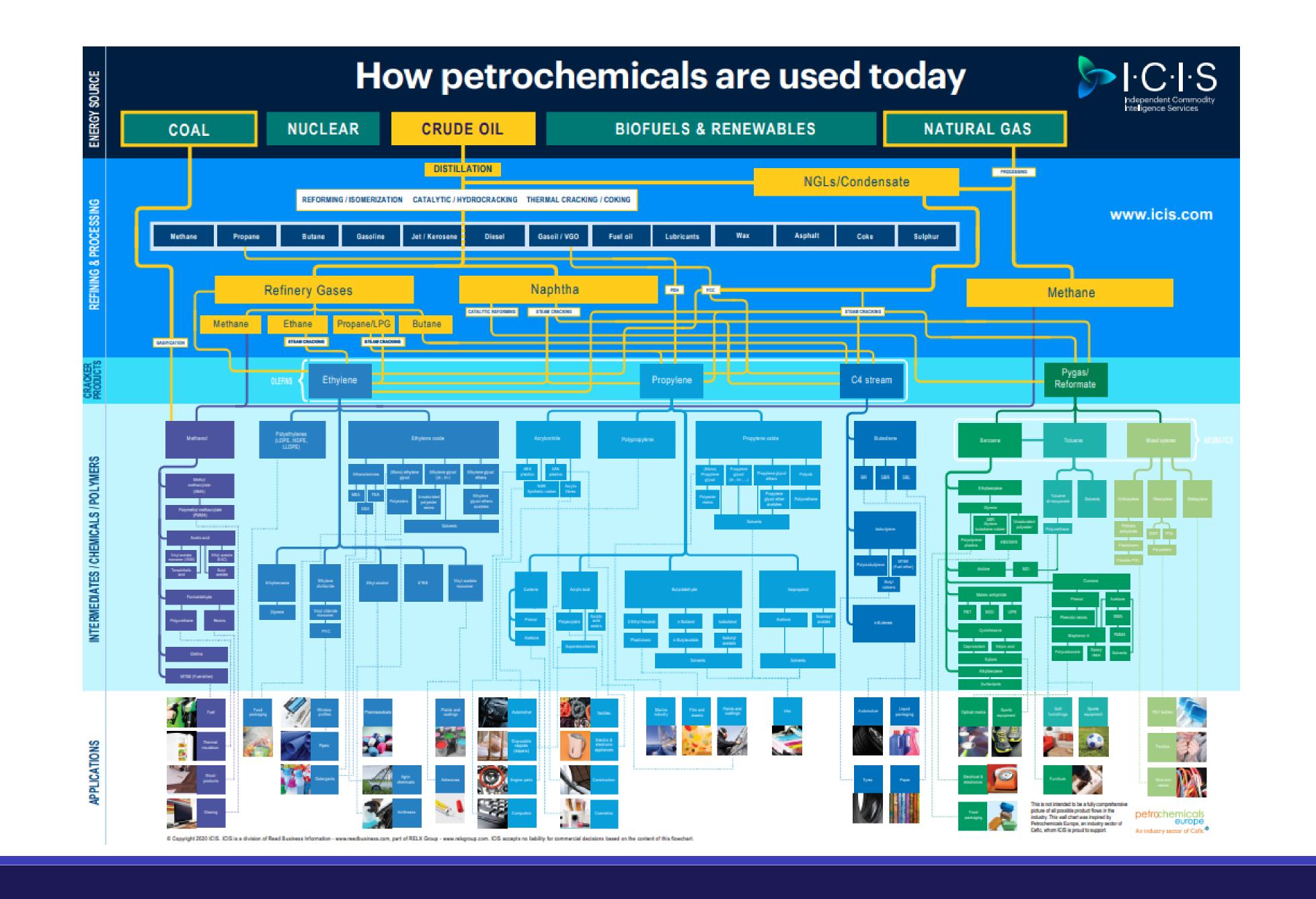
When including cement carbonation, the 2022 and 2023 estimates amount to 36.4 ± 2 GtCO₂ and 36.8 ± 2 GtCO₂ respectively. The 2023 projection is based on preliminary data and modelling.

Source: Friedlingstein et al 2023; Global Carbon Project 2023



Gasoline accounts for 45% of U.S. refined products in 2021 If U.S. consumes <u>less</u> gasoline because of EVs, it will still be produced Cannot produce diesel, jet fuel, ethane or propane <u>without also producing gasoline</u>

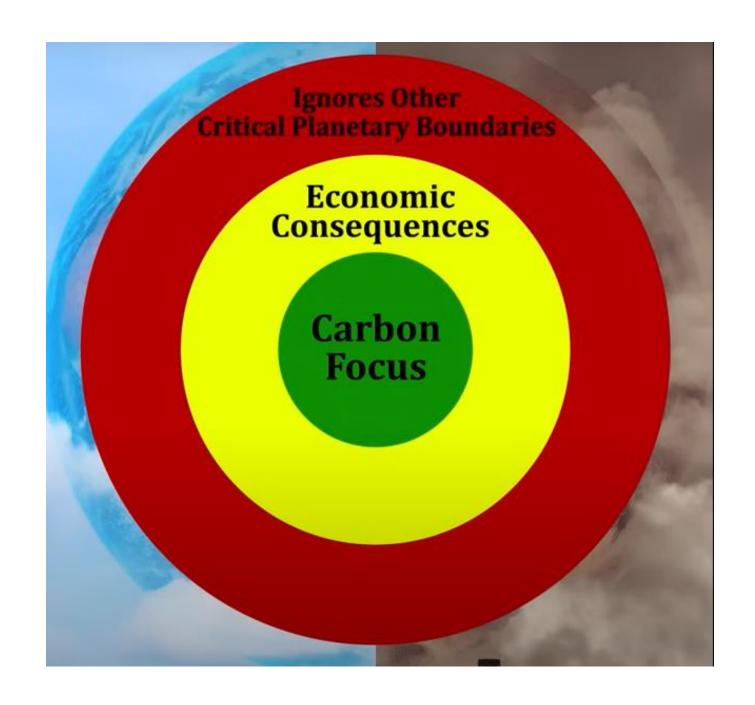


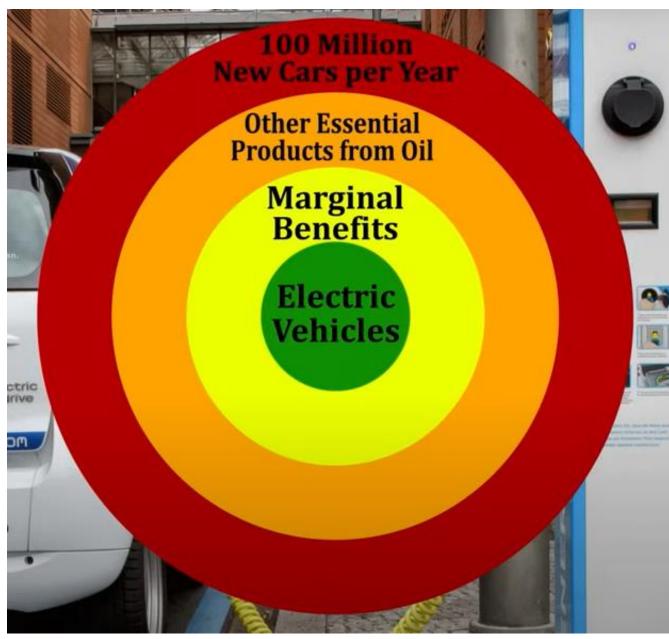




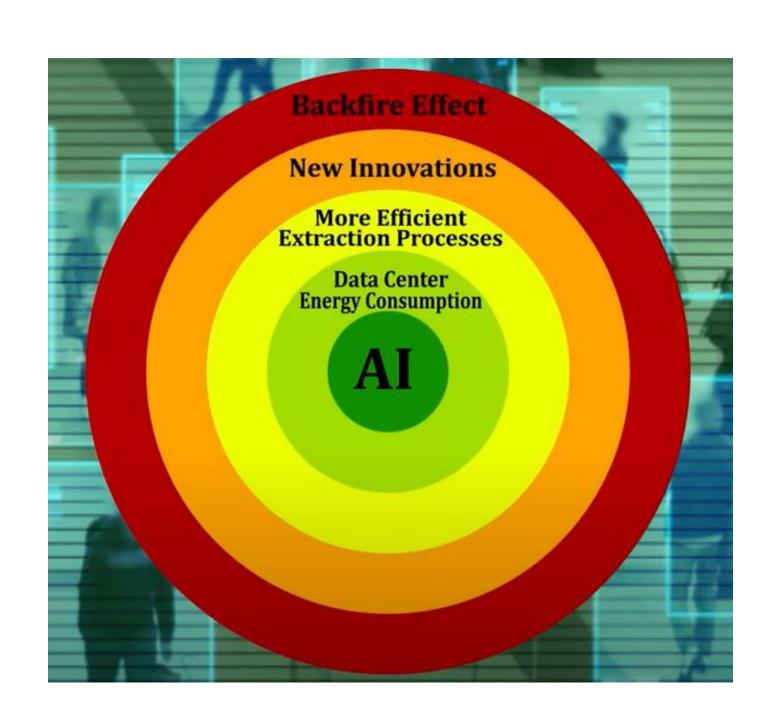
Using a Wider Boundary Lens

Source: Nate Hagens, The Great Simplification











"We live in a competent universe, we are part of a brilliant planet, and we are surrounded by genius.

Nature is incredibly generous, and it has learned to live gracefully on this planet for billions of years."

– Janine Benyus,Founder, Biomimicry Institute

How we are Destabilizing the Planetary Water Cycle

Industrial Agriculture
Impermeable Surfaces
Destructive Forestry Practices





- 56% of World's population lives in cities
- Cities account for more than 70% of global CO2 emissions
- Cities are highly vulnerable to the impacts of climate change due to Impervious Surfaces
- Impervious Surfaces in the US:

 43,000 square miles (14% of total land)
 1/3 of the above is buildings
 2/3 is pavement; 4 million miles of roads



Cities Helping Nature capture Carbon

- Soils globally sequester **1.5 gigatons** of carbon
- Trees and other types of vegetation sequester **7.9 gigatons**
- Wetlands: 3% of earth's surface but contain 2x carbon as all forests
- Estimates are that we could capture an additional **20 gigatons** via regenerative agriculture, urbanism and carbon farming.

What is Nature Positive Urban Design?

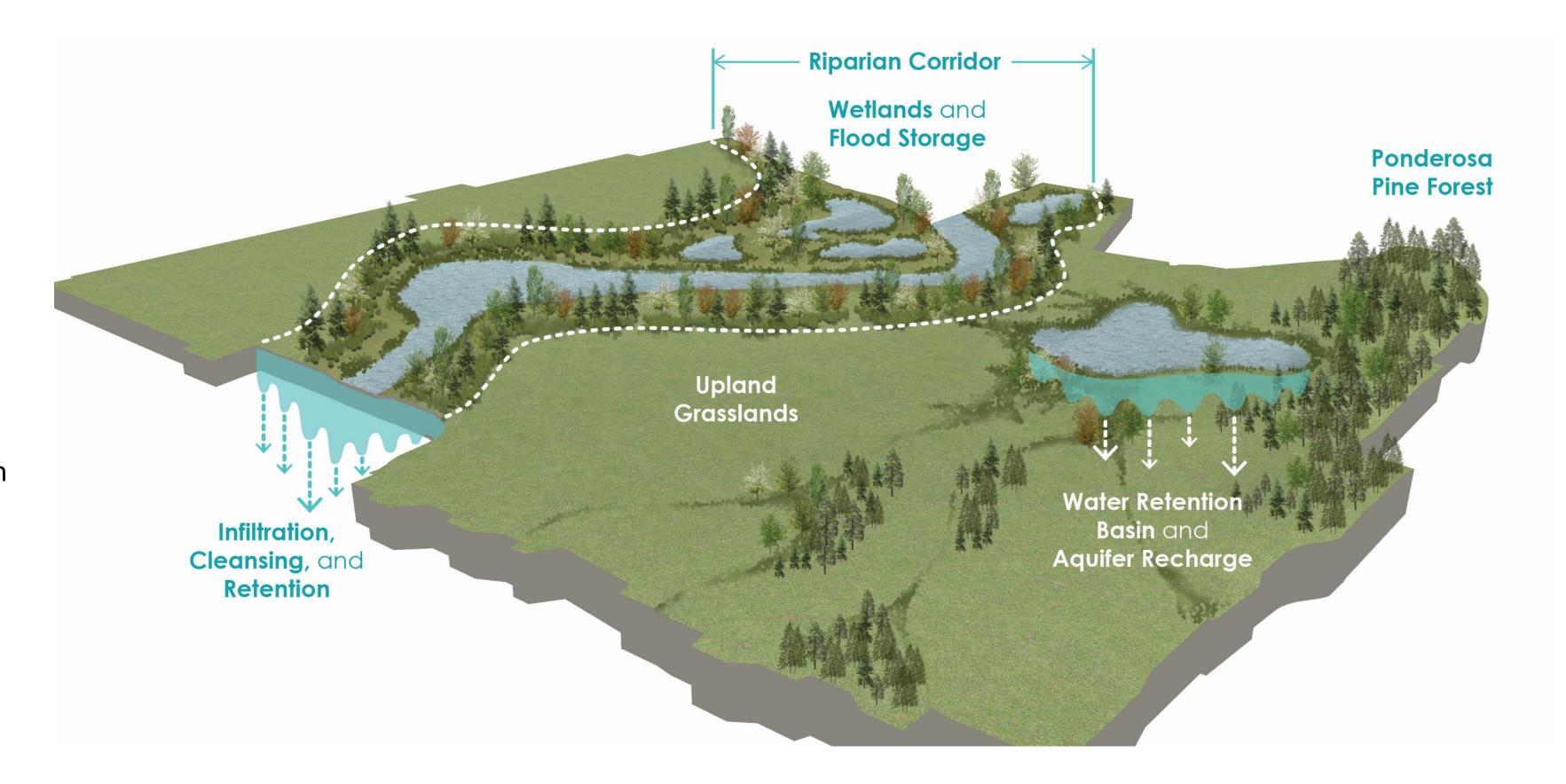
"The Sustainable Development Goals set by the United Nations stress the importance of local ecosystems and suggest that all aspects of a city - its buildings, infrastructure, and natural surroundings - should actively contribute to environmental health. This includes maintaining clean air and water, healthy soil, sequestered carbon, cycled nutrients, reduced erosion, reduced heat, and supporting biodiversity."

- Dayna Baumeister and Nicole Miller,
- Innovation for Ecological Transformation



Design Premise: Ecological Context and Historical Indigenous Practices

- The Spokane River is **the center of life** for region
- Four distinct ecosystems present in the region encompassed: pine/ponderosa savanna, shrubsteppe grassland, riparian corridor, and floodplain.
- River provided food, water, a means of transportation and a meeting place for indigenous people
- The system is characterized by grassy-floored open forests with ponderosa pine, Douglas-fir, western larch, western white pine, and quaking aspen
- System provided water retention, flow regulation, carbon sequestration, erosion control, soil warming, microbial activity and pollinator habitat
- The dominant native trees species, Ponderosa pine supports 116 bird species, 70 mammals and 17 species of reptiles and amphibians
- Coniferous Forests, Ponderosa Pine, historically sequestered up to 260 metric tons of carbon per acre



UD Core Ecosystem Services

- 1. Air Filtration
- 2. Biodiversity
- 3. Carbon Sequestration
- 4. Energy Provision
- 5. Fire Adaptation
- 6. Nutrient Cycling

- 7. Pollination
- 8. Stormwater Management
- 9. Temperature Regulation
- 10. Waste Generation and Management
- 11. Water Cycling
- 12. Human Health and Wellbeing

Ecosystem Service	Target
Air filtration	AQI $PM_{2.5}$ and PM_{10} in the urban core should not exceed that of native ponderosa pine savanna (in fire-free conditions).
Biodiversity	Environmental restoration activities will use species native to the ecosystem in appropriate locations in ratios similar to the original landscape.
Carbon Sequestration	${ m CO}_2$ emissions from energy generated from fossil fuels and building construction should not exceed the net primary productivity (Mg C/ha/year) of the surrounding landscaping/vegetation including any engineered sequestration that may become feasible, and/or offset credits.
Energy Provision	Energy produced by rooftop solar and other distributed energy sources (geothermal and wind) should produce the equivalent net primary productivity of a mature ponderosa pine savannah.
Fire adaptation	Plant and maintain native fire-adapted vegetation that produces a fuel load similar to savanna grasses that burns quickly to reduce the incidence of and/or damage caused by catastrophic fire. Structures should have fire -retardant outer materials like the Ponderosa bark, and vegetation should emulate the quick-burning grasslands.
Nutrient Cycling	Open space areas should have the same ratio of trees to shrubs and grass as the ponderosa pine savanna ecosystem to enhance nutrient interception by roots and protect the system against nutrient losses. Artificial media in non-vegetated areas can also be used to absorb and retain nutrients.
Pollination	UD vegetation should mimic native perennial grasslands by including plant species known to host native pollinator communities represented in ponderosa pine savanna.
Stormwater Management	Zero percent impervious services or equivalent.
Temperature Regulation	The amount of shade in the developed urban ecosystem should be the same as what was provided by the ponderosa pine savanna. Shade targets could be met by both vegetation plantings and built structures. In addition, shade trees should be distributed equitably, as low-income areas tend to have fewer trees, and arguably less income to pay for air cooling.
Waste Generation & Management	The ecosystem assets and features of the pre-development UD site would have managed waste in a closed loop, meaning that all waste created would have been decomposed and recycled back into the ecosystem.
Water Cycling	Water withdrawals should be calibrated to protect the aquifer and limit water withdrawal to support historic aquifer recharge rates.
Human Health & Wellbeing	The ongoing development theme is to preserve the "winter camp" status of the area, as it was a meeting place for indigenous people where people come to share knowledge and food and culture.

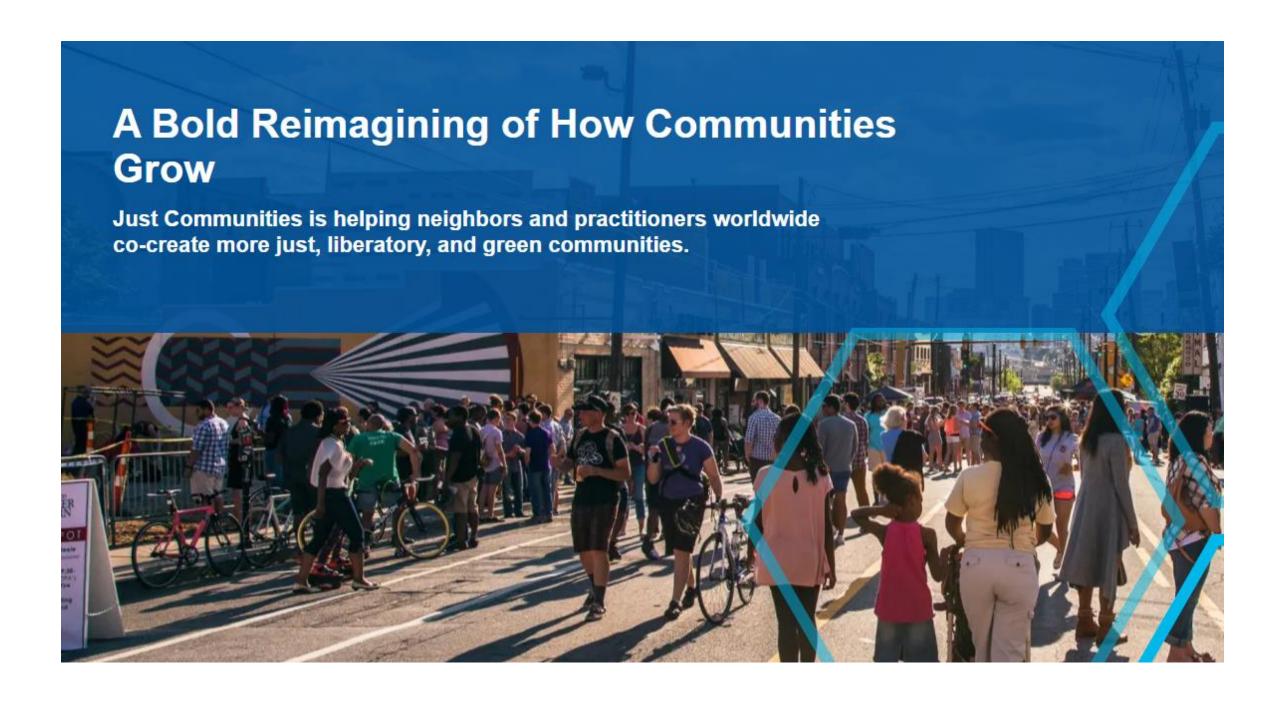
Riparian Ecosystem Conceptual Cross Section











I CENTERING RACIAL AND CLIMATE JUSTICE

The Protocol starts with an unwavering commitment to Racial Equity and Climate Resilience in every phase of organizing, planning, and implementing neighborhood-scale community development. We call these our *Just Communities Pillars* and they form the key imperatives that every community must address. The legacy and impact of structural and spatial racism and environmental injustice in land use policy and development – in the form of segregation, disinvestment, and displacement – has led to trapping millions of Black and historically disinvested communities of color in generational poverty (while others sustain wealth and privilege) and at constant risk from the growing impacts of climate change. This framework seeks to begin the important and necessary task of putting justice at the center of community development.

2. POWERFUL METRICS TO SHAPE EQUITY AND RESILIENCY OUTCOMES

The Protocol includes a set of seventeen comprehensive *Just Communities*Commitments organized into the five essential categories – Belonging, Opportunity, Wellbeing,

Mobility, Environment – to help communities tackle the most entrenched and complex challenges facing communities today – poverty, blight and deteriorating infrastructure, lack of economic opportunity, environmental pollution, climate disruption, and health inequities.

FOUR IMPLEMENTATION PHASES TO ADVANCE THE WORK

The Protocol includes seventeen discrete and practical *Just Community Actions* organized into four implementation phases. Each action includes guidelines, engagement tips, and templates to help stakeholders move community-scale projects from vision to reality. They include: 1) Groundwork, 2) Governance, 3) Roadmap, and 4) Implementation.

60+ Stakeholders

2 Open Houses

1 Focus Group

5+ Interviews

Key Themes

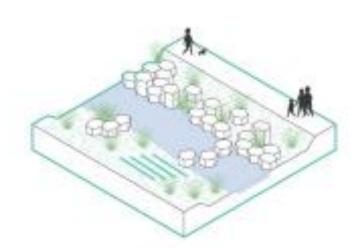
- Create a District Heart
- Connect to the River
- River as a family member
- Restore Liberty Park
- Multicultural Center
- Food Markets
- Integrate Art
- Improve water quality and restore river health
- Food Sovereignty and Community Gardens
- Connect to Downtown

- Support and grow local businesses
- More cover and shelter
- More water throughout the UD
- More Trees
- Limit Displacement
- The houseless do not feel welcomed in UD
- Increase infrastructure such as benches, lights and trash cans



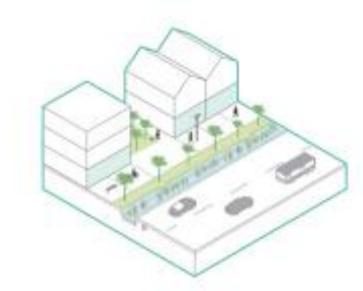
Main Takeaways from the WHY to Inform the HOW A place for multi-cultural The river as a food and gathering family member A fully connected district for Food sovereignty as part of pedestrians, cyclists and transit users the nature-based model vision Potential to positively A place of healing - racial equity, houselessness and opioid issues impact adjacent districts impact adjacent districts

NATURE-BASED STRATEGIES PALETTE



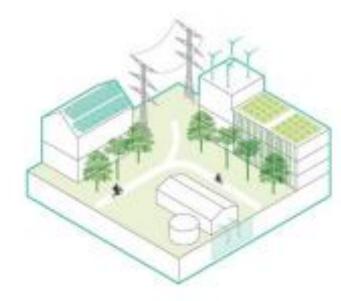
Coulee (Blue-Brown) Water

Urban coulee streets for water conveyance, xeriscaping, and basalt gardens, with potential for deep-infiltration wells



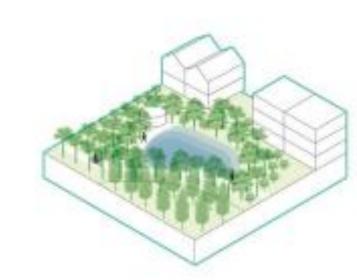
Blue-Green

Infiltration and stormwater infrastructure including greenways /curbless streets/ rain gardens and permeable pavement



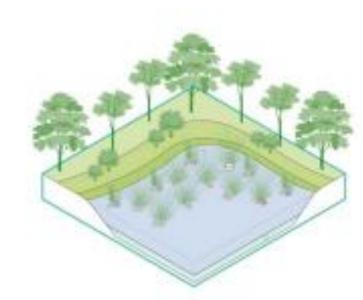
Energy Independent Buildings

Electrification and battery islanding which can be combined with resilience hub elements



Urban Forests

Areas for planting Ponderosa Pine groves, or micro forests such as Miyawaki Tiny Forests



Clean Water Parks

Accesible stormwater parks that slow the stormwater and reduce combined sewer overflows



Rainwater Harvesting

Microgrids

Water efficiency programs at buildings/sites



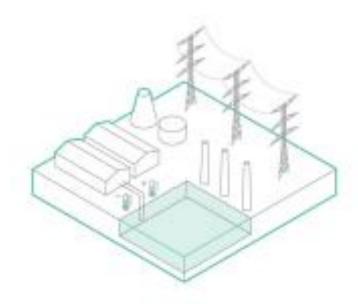
Multi-modal Mobility

Ride shares, shuttles, and accessible transit programs



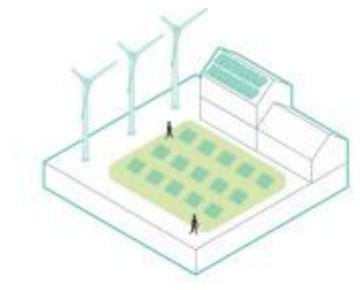
District Parking

Coordinate parking and transportation demand Renewable energy including community solar management



Shared Energy Systems

Geothermal and ground coupling of water pipes to facilitate heat and cold transfer and reduce waste



District Renewable Energy Clean Soil Parks and Production

District renewable energy and micro-grids, solar on land or buildings



Trails

Bioremediaton of brownfield areas highlight phytoremediation of soils with artist program and research innovation



Biodiverse Corridors

Connect people, pollinators, animal habitat, and flyways for birds to and from the river and to parks



Pixelation Across the District

Green factor code infrastructure for planting both on land and buildings



Street Tree Canopy

Using silva cells or planters on



Water Storage

Aquifer recharge ponds



Recreation

Active park improvements. Play areas, Kayak launch, basketball courts, pickle ball and active



Mobility Hubs

Micromobility stations, EV charging stations

EQUITY, INCLUSION AND BELONGING STRATEGIES PALETTE



Inclusive Childcare

Early education and childcare choices including home based, care centers and education for all



Inclusive Housing Choices

More housing choices including rental, ownership, multigenerational, affordable, and middle housing



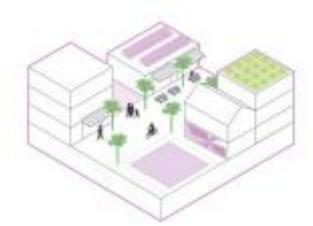
Multi-Cultural Gathering

Inclusive gathering spaces with arts and culture, public realm improvements both indoors and outdoors, with shade structures for people of all ages, abilities, and cultures to meet



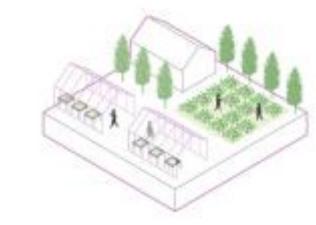
Multi-Cultural Market

Multi-vendor marketplace, or pop-up markets for place-making and community connection. Could be day or night



Rehabilitation and Infill

Existing building retrofits and vacant lot infill to support and complement existing businesses and community orgs including energy, sustainability, public art upgrades



Food Production and Distribution

Multi-cultural food production and distribution opportunities for small businesses, job training, and workforce development



Inclusive Services and Shelter for All

Healthcare, childcare, early childhood education, shelter for people who are houseless, and other services and programs



Anti-displacement Programs

For businesses, community organizations, and residents



Inclusive arts and culture Festivals and Events

Arts, culture, education and community organization events



Inclusive District Business Arts, culture, education,

and business directory and marketing programs with a facus on enabling networking opportunities for small and stortup businesses

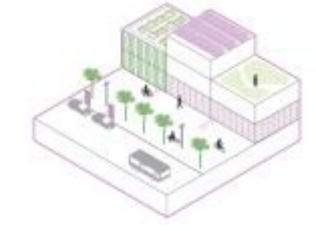


Inclusive Workforce Development

Job training programs prioritizing historically marginalized populations

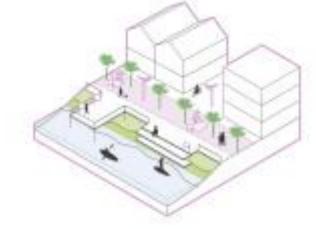
Opportunities

Programs, schools, and lifelong education



Community Resilience Hub

A network of community-serving facilities to support residents, distribute resources, coordinate communication, and reduce carbon pollution for both ongoing social connection and emergency support services



Inclusive Wayfinding + Storytelling

Placekeeping in the public realm with public art, signage, furnishings, new plazas and viewpoints. May include multi-cultural and indigenous representation or interpretive storytelling.



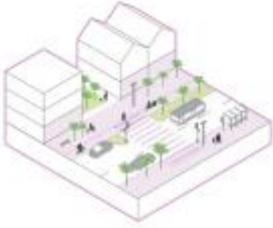
Food Growing and Access

Individual and community gardens, urban agriculture, and access including fresh food markets, CSO pick ups serving multi-cultural needs



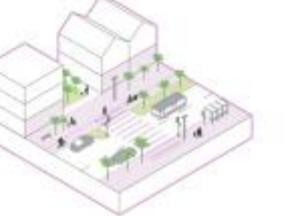
Community Engagement and Research Center

Community-serving facility to support civil participation and community based research advancing district goals



Placekeeping

Focus on enabling social connections with ample wayfinding, arts and culture elements, street furniture, wider sidewalks for outdoor uses, and universal design / complete



streets



Holistic Health and Wellness Festival

As part of the U Vision 2044



Equitable Business Incubator

Life sciences and institutional partnerships supporting marginalized business enterprises



Inclusive Public Realm

Public spaces that encourage social mixing advance economic opportunities and community



Blue-Green Infrastructure



City of Vancouver, Canada Photo credit: City of Vancouver

Coulee Green Infrastructure



21st Street Redesign, Paso Robles, California Photo credit: MIG/SVR

Clean Soil Parks and Trails



Hunters Point Park, Brooklyn, New York Photo credit: Hunters Point Park Conservancy

Clean Water Parks



San Francisco, California Photo credit: Nazanin Mehrin



Alberta Street, Vancouver, Canada Photo credit: City of Vancouver



21st Street Redesign, Paso Robles, California Photo credit: MIG/SVR



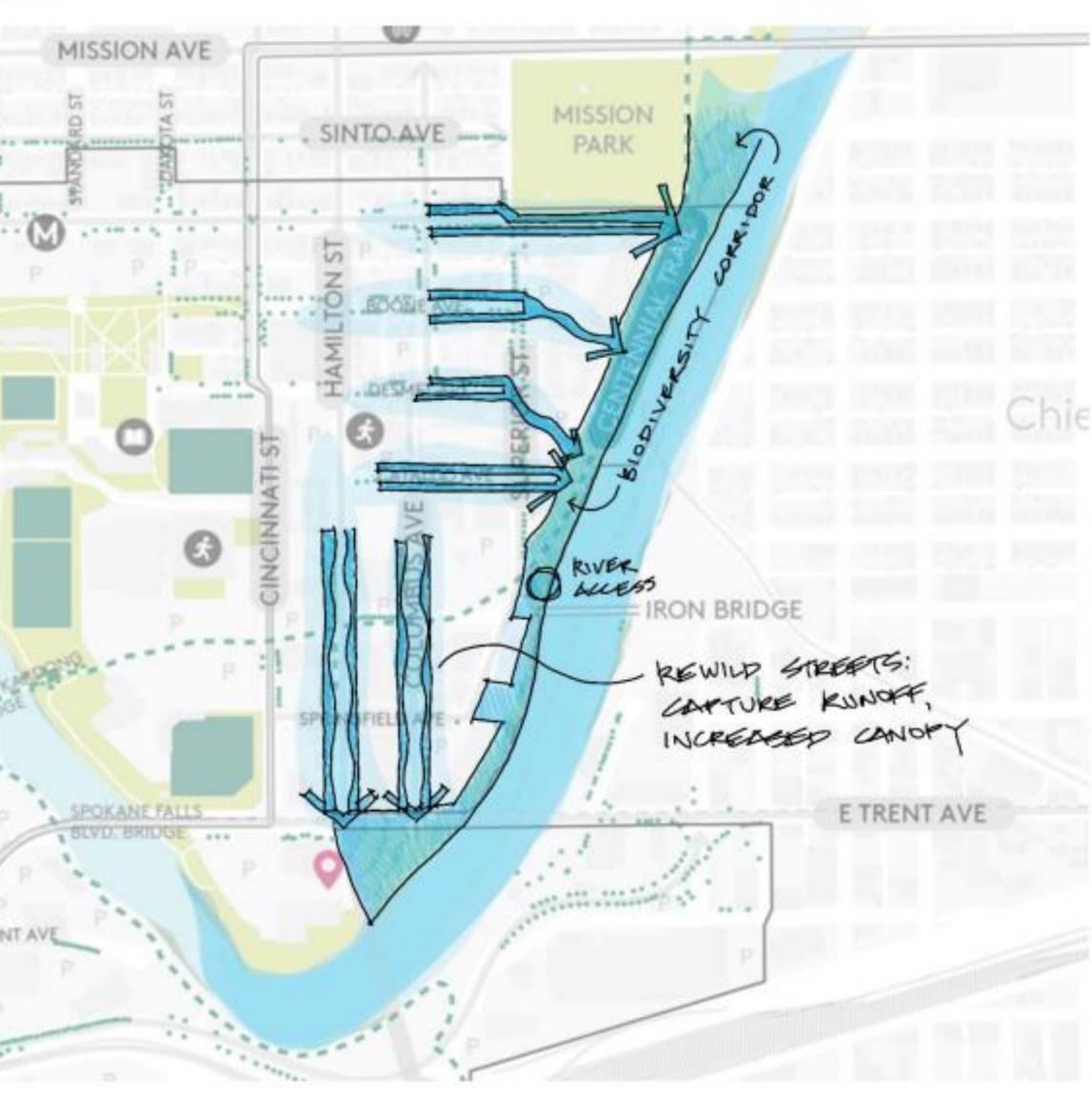
Sunset Park, Vancouver, Canada Photo credit: City of Vancouver

REWILD AND RECHARGE THE RIVER

GREEN BLUE INFRASTRUCTURE, HABITAT, AND PUBLIC REALM

Purpose: Heal the Spokane River and improve the health of Spokane. Create more space for stormwater cleaning and infiltration to recharge the aquifer and create more people, flora, and fauna habitat and access to the river.

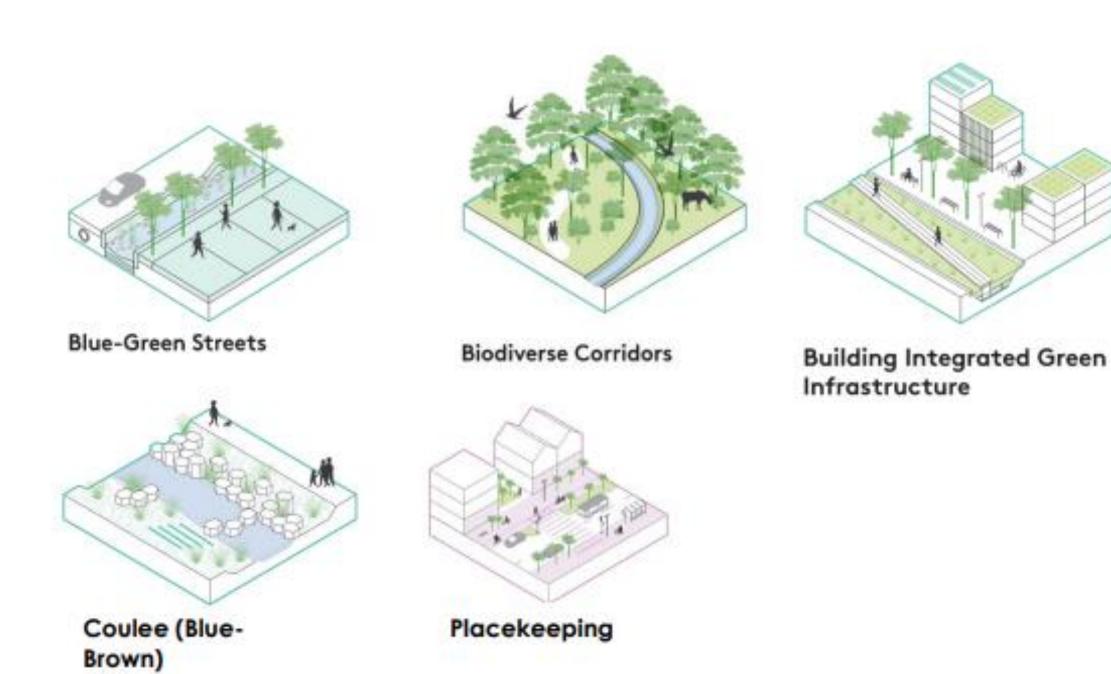


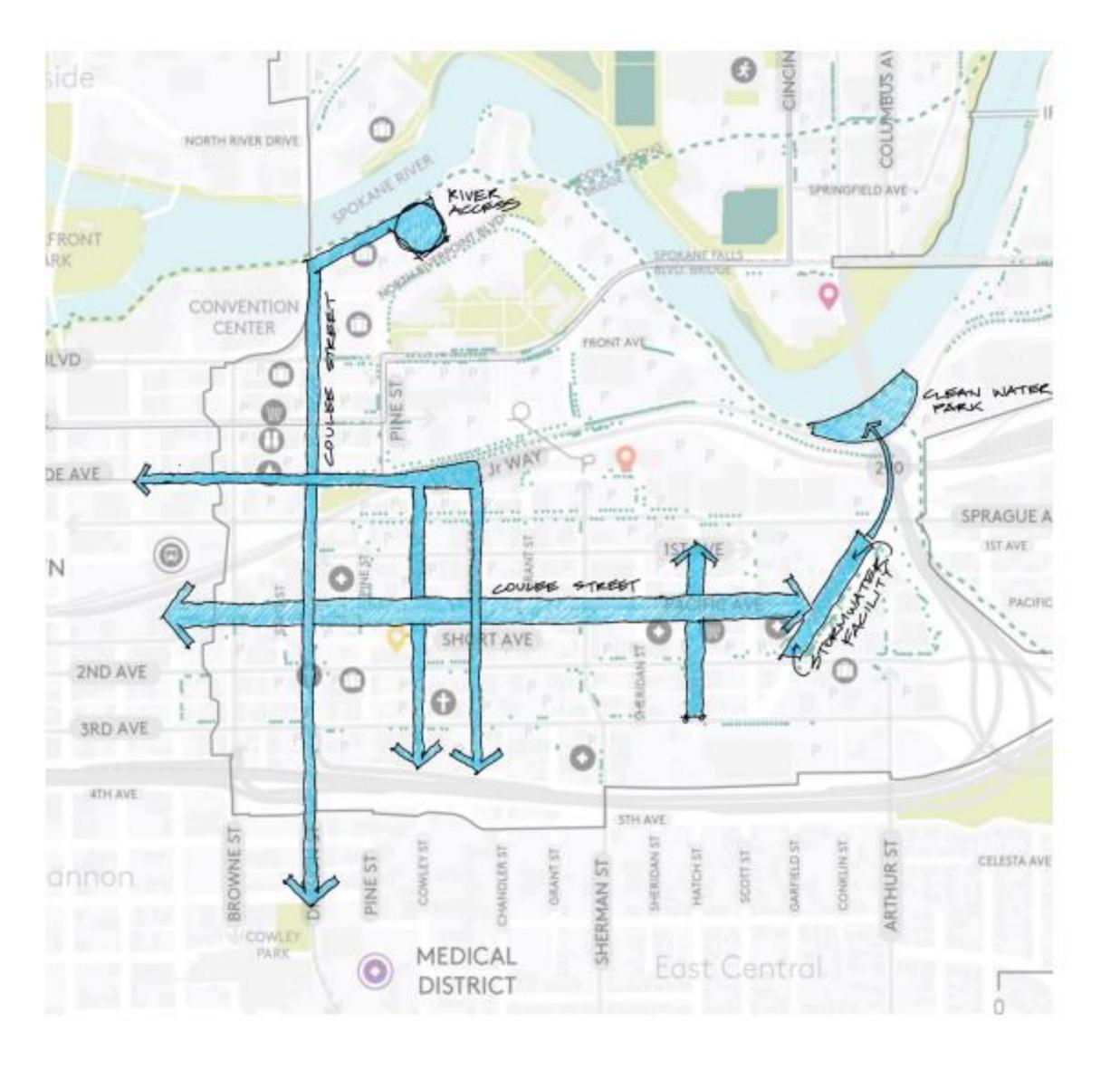


REVIVE WITH COULEE SYSTEM

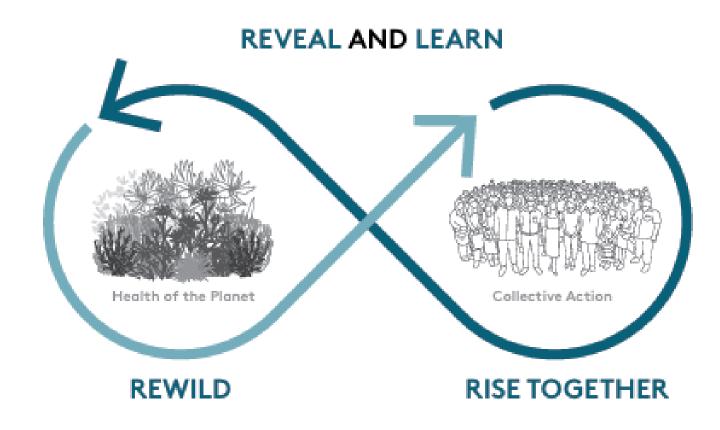
URBAN SPILLWAYS AND WATER CONVEYANCE INFRASTRUCTURE

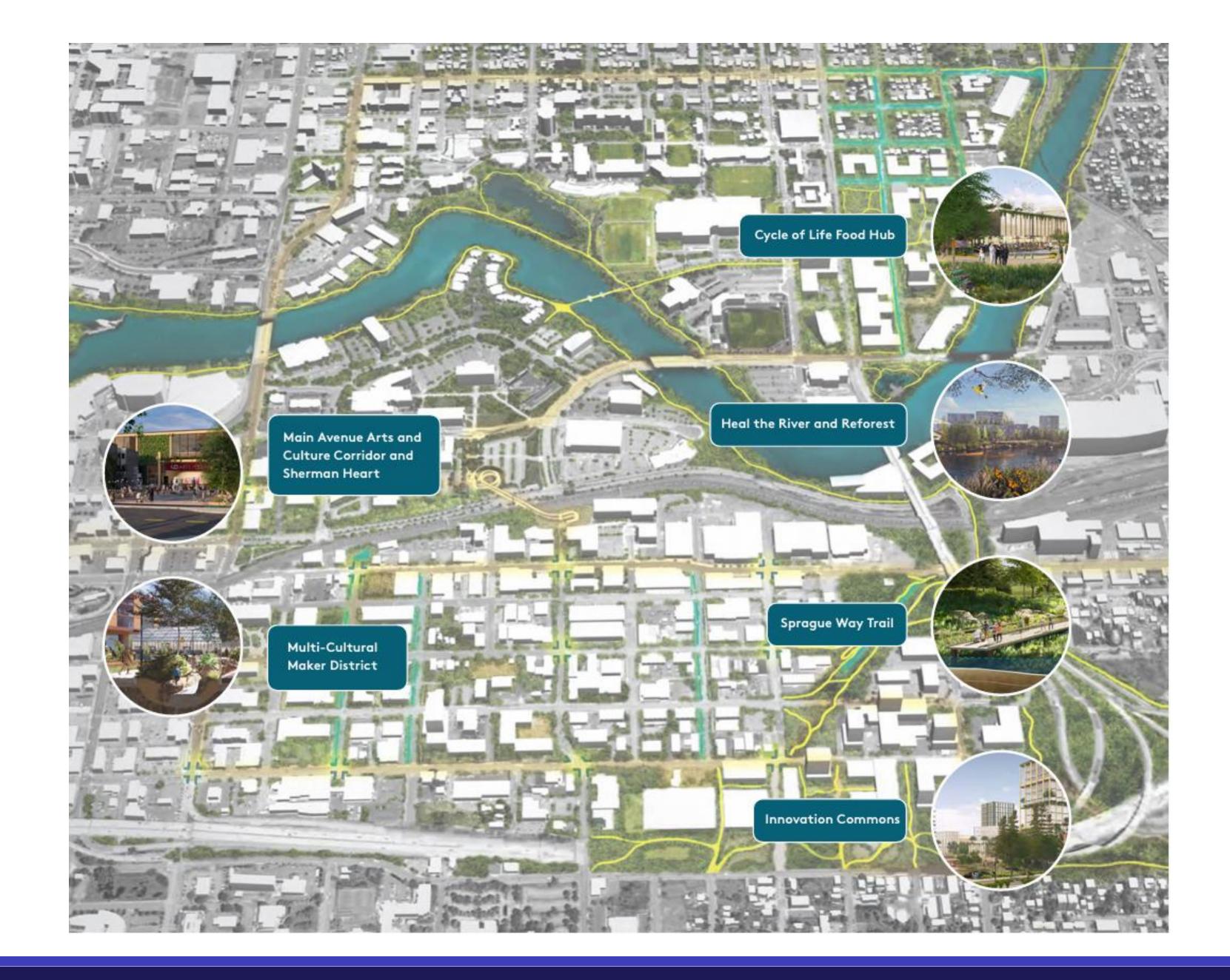
Purpose: Create a new system to transform the South UD scablands into a more productive place for people and planet to thrive with physical, social, and economic networks and connections.



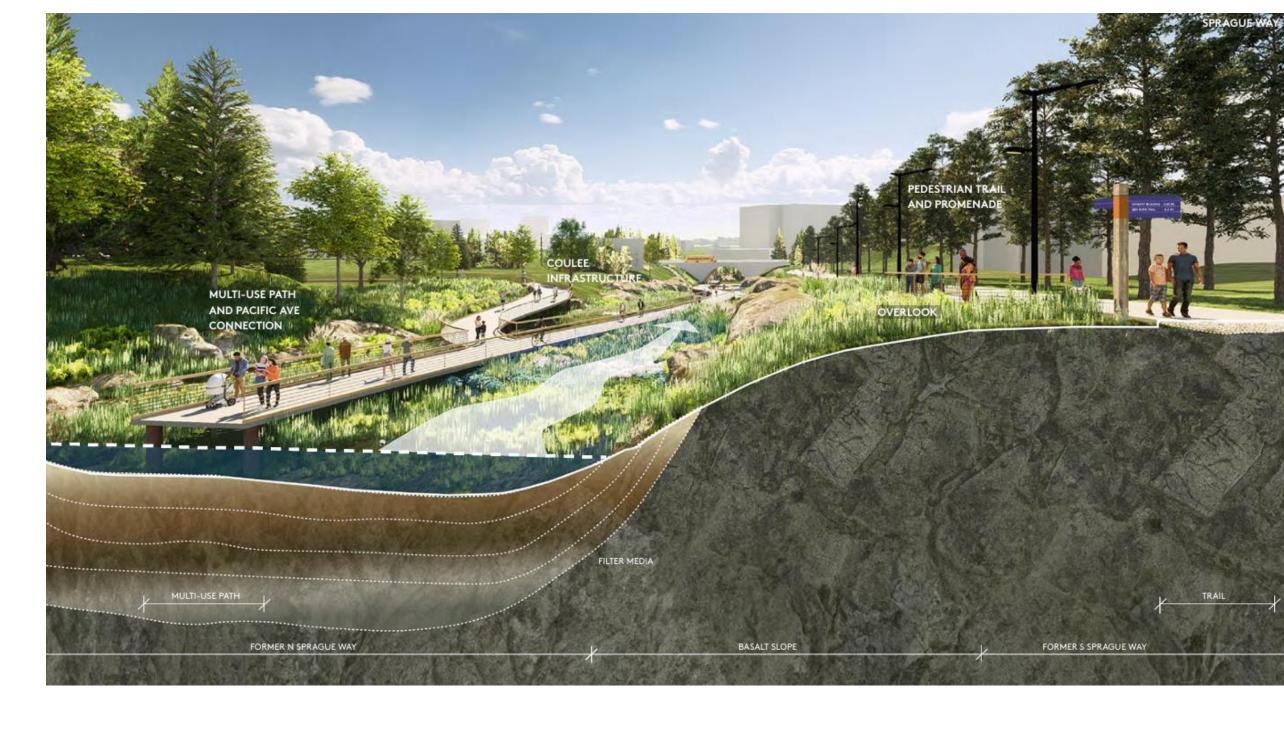


Six Key Nodes







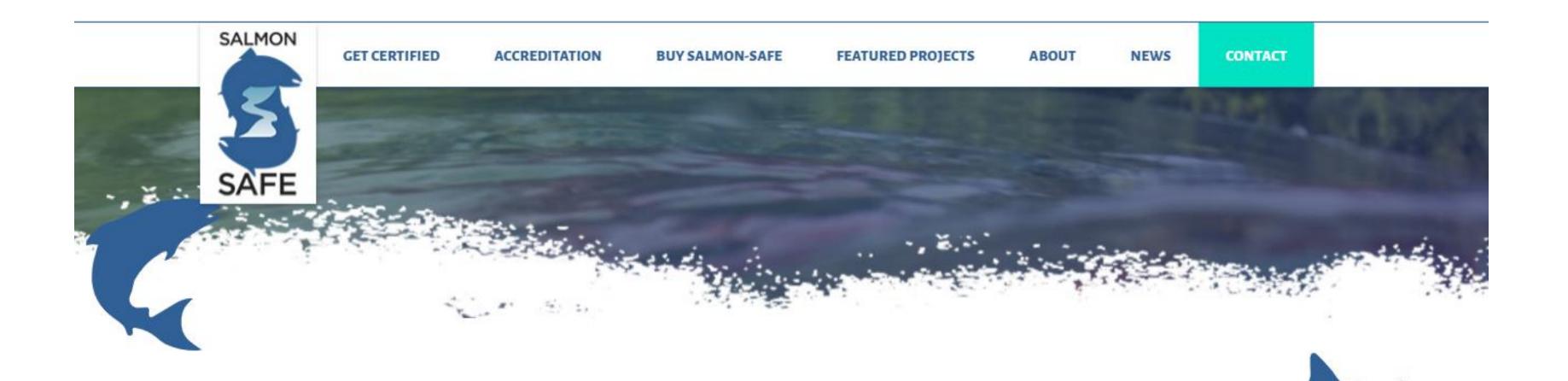






Certification:

Urban Development
Corporate and
University Campuses
Golf Courses
Infrastructure
Parks and Natural
Areas
Vineyards
Farms



SALMON-SAFE PROVIDES HIGH VALUE INSIGHT AND INDEPENDENT VERIFICATION FOR WATER QUALITY PROTECTION PRACTICES ADVANCING CLIMATE RESILIENCY.

As a leading U.S. ecolabel, Salmon-Safe offers peer-reviewed certification programs for farms and vineyards, urban development, transportation infrastructure, municipal park systems, and other large-scale land management and development.

Salmon Safe Review: UD Next Generation Plan

Support for existing plan	Additional Recommendations
Bioretention ponds; returning the land to hydrologic functions and proposed Stormwater Park along Trent and Hwy 290. Supports riparian and habitat restoration	 Water conservation: Additional vegetation recommended to be drought tolerant Reutilize all stormwater and wastewater (grey and black)
Restoring Sprague Way into a reforested Trail; eliminating vehicular traffic from existing roads and waterways	Riparian Corridors: Look to expand buffers where possible
"Rewilding" – remove unnecessary impervious surfaces and proposes nature-based infrastructure	Avoid materials that contaminate run-off: uncoated copper, zink, galvanized steel and pressure-treated wood
Green open space doubles from 127.5 acres to 231 acres (NIC university open space)	Ensure all contractors commit to adhering to Salmon Safe's zero sediment runoff goal
	Operations and Management: Review, amend and adopt integrated pest management and pesticide free practices



Thank you!

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