

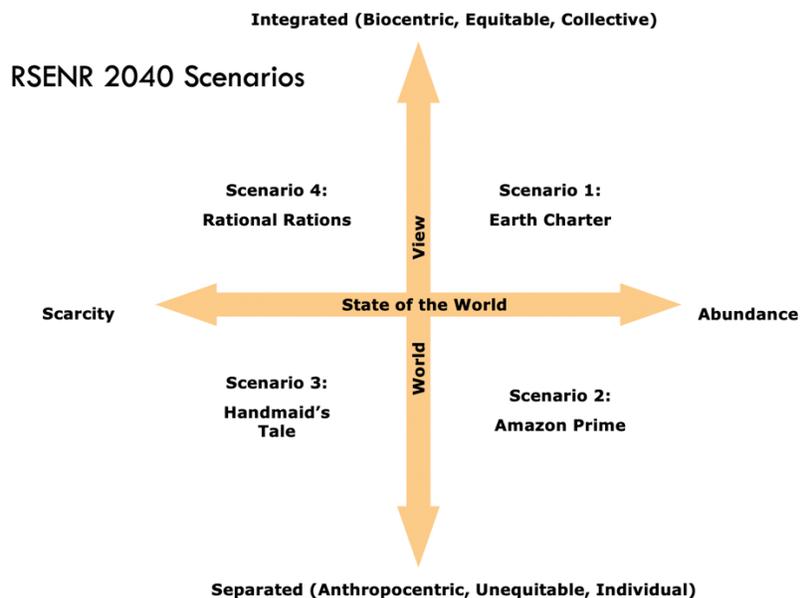
## RSENR 2040 Scenarios

**Introduction:** Scenarios are stories about the future. Scenario thinking encourages an organization to challenge deeply held assumptions and to chart a clear path forward through difficult and uncertain times. Scenario thinking allows an organization to engage around what it does not know and/or cannot control, as well as external forces that define the environment in which it must operate. These unknown forces that shape an entity’s external environment are called “critical uncertainties” and form the foundation on which scenarios are created.

In scenario thinking, we do not choose one scenario and plan toward it, but plan around a set of scenarios that elevate the most critical uncertainties we need to address. The future will never be exactly as described in any one scenario but will be made up of components of all the scenarios that are created.

The first phase of the strategic planning process was a data gathering process to help clarify RSENR’s distinctiveness, areas in which RSENR can have measurable impact, and the most relevant drivers of change shaping the future environment and natural resource higher education space. Based on the data gathering process, the following strategic focus emerged from the data gathering effort: **How can RSENR unleash empathy, passion, innovation and creativity to heal and radically change the human-environment systems in a just, equitable and ecological direction?**

This question will serve as the starting point for the scenario planning effort and is the question this process is designed to inform. To ensure RSENR stretches beyond conventional wisdom in its imaginings of the future, the end state of the RSENR scenarios has been set at year 2040. Based on an interactive workshop and several additional feedback sessions of faculty, staff, students and leadership, the following set of scenarios was created for the RSENR strategic planning process:



This set of scenarios is framed by two critical uncertainties:

**State of the World:** Will the future state of the world be one of an abundance of resources or one of an increasing scarcity of resources in its broadest sense?

**World View** —Will peoples’ future world view be one of be integrated, biocentric and equitable or will their world view be separated, anthropocentric, and inequitable?

The intersection of the two critical uncertainties created four divergent scenarios:

**Scenario 1:** A youth uprising brings about radical change to address the issues of climate change and the imbalanced relationship of humans with the Earth that creates global alliances and improved wellbeing.

**Scenario 2:** Corporate intervention leads to planetary management that engineers a Prime existence for its members.

**Scenario 3:** Order is administered by authoritarian government that squeezes what it can from Earth in a quest to figure out humanity’s next steps.

**Scenario 4:** When the world around us begins to crumble, people put aside petty differences and work to protect what is left.

The scenarios explore the following set of critical uncertainties over the next 20 years:

Human Relationship with the Natural / Living World	Future Generations of Leaders and Scientists
Societal Agency to Address Complex Challenges	Learning Models
Education (Higher Education Access, Affordability, Funding, and Delivery)	Research Approach and Resources
Public Perception of Science	UVM
Government Role and Influence	Complex Challenges (Climate Change)
Equity, Diversity, Inclusion in Science and Education	

A detailed table describing the end state in 2040 of each scenario is attached to the scenario narratives for your reference. These four scenarios will be used by RSENR in developing its Strategic Plan.

In approaching this material, avoid choosing a preferred scenario and suspend your disbelief such that you can consider all the possibilities presented. Remember, the future will not be as described in any one scenario but will be made up of components of all four scenarios.

Meet Simy: A 20 years old, mixed-race, gender creative person navigating the realities of each scenario. Simy’s experience provides insight into what a learner might experience in each world.

## **Scenario 1: Earth Charter**

*This is a world in which* humans have a respect for all life. People understand themselves as part of an integrated biosphere and focus on finding balance and harmony with each other and nature and focus on nurturing a thriving and healthy world. With expanding equity and inclusion, a broadening of the definition of knowledge and science leads to extreme new insights and advancements in a highly interconnected and richly diverse world.

There is a porous boundary between human focus and non-human focus as people honor all species' labor and space. Conservancy in interconnected systems and infrastructure become so efficient that "waste" is no longer a common term in language. Data are collected, monitored, and analyzed to ensure interspecies equity. The result is degrowth, an extreme reduction in harmful consumption, and a thriving global ecosystem.

Technology and advancements combined with the inclusion of art and expression have led to the development of new approaches to learning and the delivery of knowledge that are increasingly adaptive, personalized, experiential and driven by the student. Institutional models of education are obsolete as education is no longer measured by degree but by knowing, adaptiveness, creativity, continuity of learning and freedom of thought and expression. Universal access to learning and education leads to broad societal agency and empowerment. Democratization of education leads to highly engaged global citizens fairly participating in governance. The world embraces science and acknowledges that science must integrate with other world views that ecumenically bridges all faith traditions.

### **Current Drivers and Trends Signaling the Potential of this Scenario**

The progressive and global focus and activism of youth combines with the growing climate justice movement to create an unprecedented and sustained societal shift toward a new understanding of humans as part of a complex and vulnerable living system and environment.

### **Some Strategic Questions for RSENr to Consider: In this scenario . . .**

- What areas is RSENr uniquely positioned to focus on in this scenario?
- How can RSENr unleash empathy, passion, innovation and creativity in this scenario?
- What is key to RSENr successfully advancing its mission in this scenario?

## The Story of Simy...

A notification appears on Simy's Gaia-net dashboard – a blockchain-enabled, decentralized global telecommunications network.

*Waypoint information available.*

“It was Generation Z that led the revolution 20 years ago. They understood the urgency to act; they needed to save the world they would inherit. Politicians were not moving quickly enough to address climate change and societal injustices. Radical action was taken to form the Youth-nited Nations. The organization leveraged digital platforms to inspire their peers, summoning the largest turnout of voters in global elections. Generation Z used their unified political and economic power to reshape the course of history, our relationships to each other, and our collective relationship with the Earth.”

Simy inhales deeply to take in the moment, and then walks across the former border of the United States and Mexico. It's hard to imagine that in 2020 CE, the year that Simy was born, a wall was being constructed to restrict access. No such boundaries exist anymore – not here... not anywhere. The remnants of this wall now serve as a historical landmark for Earth's inhabitants. This was the first border to fall. Around the eroded rubble, vegetation is growing in a manner that looks as if the Earth is reabsorbing the wall into the soil.

Settling down in the shade of a nearby tree, Simy cues up the Gaia-net dashboard to reference the data for this location. New knowledge is co-created by a global network of scholars working in unison with Gaia – the biocentric artificial intelligence embedded in Gaia-net that monitors the Earth's health and global equity. The consensus of an ad hoc research group and Gaia is that the environmental conditions today are favorable for planting new crops. Simy, as a young learner seeking experience, is the hands and eyes on the ground for this team.

Reaching into their pack, Simy pulls out a sack of seeds, fertilizer, and some tools. They turn the soil and sow the seeds. Simy plants the crops in accordance with designs incorporating agroecological, artistic, indigenous wisdom and conservation biology perspectives. Simy uploads the work log to Gaia-net for other learners around the world working on similar retro-border reclamation projects, which range from agricultural to recreational in design. These efforts continue to nourish the Earth and its inhabitants.

Another notification appears on the Gaia-net dashboard.

*Earth system update.*

“Mean atmospheric CO<sub>2</sub> is at 320ppm and trending down. Global biodiversity increase is accelerating. Human population remains stable. Resource distribution rebalancing to account for El Niño's effect on crop yield. Long term outlook: favorable.”

Simy closes the dashboard and smiles. Time to bike back to the village for the community feast for the 10 EE celebration – a full decade of mutuality with all living things in the Ecozoic Era.

## **Scenario 2: Amazon Prime**

*This is a world in which* people experience isolation and disconnectedness from society and the natural world. Physical contact is a luxury as people immerse themselves in technology and virtual worlds and realities. The health of people and the living planet suffers.

Power and privilege are concentrated with data and knowledge being controlled by a few. There is a growing gap between the rich and the poor that leads to pockets of prosperity and pockets of poverty.

Human ingenuity combined with necessity leads to planetary management and engineering that successfully mitigates biophysical challenges. The result is an abundance of scientific knowledge, global engineering endeavors and manmade resources including engineered, synthetic foods and emersive augmented experiences of past natural ecosystems. These new frontiers lead to many new ethical challenges including designer humans, cloned humans, genetically engineered and modified species.

Focus on predictive analytics and strong regulatory structures grows. With the challenges increasingly emerging on the global scale, the United Nation experiences a resurgence of relevancy and importance as the world transitions into a time of planetary cooperation and management.

Education is transformed by technology into affordable, mobile models with a strong emphasis on STEM fields. The arts and humanities continue to decline as the emphasis is placed on science and engineering.

### **Current Drivers and Trends Signaling the Potential of this Scenario**

Technological capability including machine learning and predictive analytics allow for never before possible mechanism to understand and potentially engineer and manage highly complex global systems. This, combined with the challenge of the current agricultural and food systems to sustain the current rate of human population growth, provides the basis for meta-scale human intervention to manage the planetary biophysical systems.

### **Some Strategic Questions for RSENR to Consider: In this scenario . . .**

- How can RSENR unleash empathy and passion for human-environment systems in such a scenario?
- How can RSENR and UVM research achieve an R1 status in this scenario?
- What is key to RSENR successfully advancing its mission in this scenario?

## The Story of Simy...

Simy noticed a tickle in their throat similar to the feeling they remember from respiratory illnesses as a child. Xenobots quickly moved to the site of the irritation, identified the problem as simple dryness, and adjusted the room's humidity accordingly. These moments still scare Simy because of their childhood memories, but viral illnesses had been cured within the network 15 years ago. The catalyst for advances in biotechnology occurred following the 2020 Lunar New Year - the year of the coronavirus pandemic. The conditions for crises were perfect with millions of people moving across the planet for the annual celebration. Within a few years the virus had claimed a third of the world's human population. Resource extraction accelerated to fuel research and development initiatives.

Amazon pivoted from being a retailer to becoming a planetary management organization. It began with the Bezos Earth Fund - an investment in taming terrestrial threats. Amazon's Human Persistence Project developed a planetary management protocol, simply known as The Plan, to preserve the human species. By using the personal data they had gathered through smart devices all over the world, Amazon was able to engineer a comfortable Plan for every Prime member, but at the expense of others. Technology flourished and Prime humans would never be sick or go hungry again - but to avoid future risk, The Plan strictly controls human movement and migration. Limiting human contact was the best way to protect its members from anthropogenic contagions and the extreme climate of the natural world.

Simy's throat clears and they reconnect to the server. Their development project was in its final phases. Simy has been part of a team developing a new Virtual Reality learning module - a guided hiking experience through the natural landscapes outside the walls. Simy has been synthesizing bits and pieces of data uploaded by monitoring drones. They enjoy the challenge of replicating the diversity of stimuli that exist beyond the megalopolises. Simy knows that these experiential modules form the basis of an important Prime education that develops empathy for the non-Prime existence, and an appreciation for what Amazon has been able to build for its Prime members.

When the module is complete, Simy will need to send the final product to the United Nations for Interpreted Reality Board (IRB) review. The role of the UN, since ratifying the Human Persistence Project, has been to enforce protocol from The Plan. The long-term vision is to transition as many non-Prime humans into the membership network as possible - but the rate of entry must be carefully managed. The Plan isn't meant to be fair or equal; it's meant to work. Simy can only hope to contribute to further innovation and education that might one day increase the capacity of the network. For now, the network still relies on the labor and resources from beyond the walls.

A delivery arrives for Simy - it's dinner time. "Alexa, connect to dinner party." Holograms of Simy's friends and project teammates appear at the table. The group has been digitally connected for the past year, learning and working together. The project has been emotionally draining. The team members are working with images of life beyond the wall. These dinner parties have become a way for them to simply enjoy what everyone is working so hard to protect. The Plan ensures human persistence so that Prime members can live comfortably. "Alexa, pour some champagne for the team." Simy raises their glass, takes a sip, and savors the smooth flavor. Simy feels another tickle in their throat. The bubbles in the champagne are perfect. "Alexa, pour another round for the team."

### **Scenario 3: Handmaid's Tale**

*This is a world in which* complex challenges facing the planet are not addressed effectively leading to a scarcity of resources. There is a growing sense of protectionism, nationalism exacerbating division and the sense of “us” and “them” in the world. A strong, controlled governing approach provides stability and the leadership the populous is looking for in these times of uncertainty, insecurity and personal risk.

The inadequate response to the climate and anthropocentric attack on the natural environment and systems leads to extreme loss of biodiversity globally which further weakens the ecological systems. Necessity is the mother of invention leading to a surge of entrepreneurial innovations that although profound in their potential are limited in their application by the borders and boundaries which rise around the world. Science becomes power and is a controlling force in the world and is built into large military industrial complexes.

Ongoing catastrophic events including floods and drought lead to the largest displacement of human beings in the history of man. The human species slips into survival of the fittest. Those most affected and vulnerable to these events tend to be the socioeconomically most vulnerable and challenged populations around the world, who are treated as a nuisance and problem and are welcome in few places. Conflicts are on the rise and along with a growing sense of tribalism in which many legacy governing models are challenged by civil unrest. China with its strong and flourishing economy rises to be the global leader.

Education and learning is limited to the few and the gifted that are identified as genetically superior at an early age with STEM and leadership skills being the primary focus at the highest levels of education. The masses are trained for valued skills and trades through a Vo-tech model and job apprenticeships. Higher education is reserved for the elite fomenting two social classes and a forgotten third class system and a one-way flow of information and control. This exclusive and controlled model validates the lack of respect or value placed on diversity and humanity.

### **Current Drivers and Trends Signaling the Potential of this Scenario**

The current divisiveness and polarization that has emerged from unreconciled differences in deep ideologies and values is intensifying further reinforcing nationalism and populism around the world. The social and environmental inequities around the world are seemingly intractable while continued catastrophic events impacting the most vulnerable populations around the world are imminent and leading to a continuance of mass migrations of displaced people. All of this at a time when our planet and its ecosystems are experiencing scarcity of critical resources including an unprecedented extinction of species and the breakdown of complex ecosystems.

### **Some Strategic Questions for RSENR to Consider: In this scenario . . .**

- What areas is RSENR uniquely positioned to focus on in this scenario?
- What role can RSENR play in creating a just, equitable, and ecological approach in human activity?
- What is key to RSENR successfully advancing its mission in this scenario?

## The Story of Simy...

Simy's days are spent at Dàxué #5 – one of the five sites of the Global Ministry of Education (GME) on the continent formerly known as North America. They start each morning with a pre-fabricated mixture of protein, carbohydrates, minerals and vitamins to ensure they obtain optimum nutrition for brain development and productivity followed by brisk exercise. Later in the day, Simy enters the Conditioning Sphere where their muscles are exposed to electrical stimuli, and they experience simulated outdoor images, scents, sounds, touch, and tastes that existed more than 20 years ago during the time global warming was causing a rapid decline in the natural environment. Panic and social chaos were rampant during that decline. This set the stage for China to offer a path towards restoring order through strict authoritarian rule. Compliance meant salvation. China's leaders ascended to become the leaders of the Global Government.

With the Global Government's complete authority over evolution, genetic selection, and pre-programmed socialization of the working class, the world is in a structured balance. The Global Government works to exterminate tribal unrest and move towards assimilation into a single society. The ruling class consolidates scarce terrestrial resources to further their pursuit of new extraction sites.

Based on genetic testing, Simy, has been identified by Global Government's Rule of Survival Agency (ROSA) that they are one of the .00005% of the world's population who will be cultivated as a governmental leader in science and technology. Simy's intelligence, physical prowess, and profound lack of empathy or compassion means that they have the potential to succeed as a top leader to guarantee that the underclass sustains the ruling class. Their genes will be used as a template for elite human engineering. Simy will have offspring but might never meet them. These sorts of sacrifices are the only pathway for upward class mobility.

Simy's knowledge content is updated in their Cerebrum Learning Center (CLC) and in their limbic system every 12 weeks during their 24-month indoctrination at Dàxué #5. The GME's senior leaders determine the amount and rate of information to share with each student like Simy. Though AI has advanced to capture the world's knowledge, it strives to match the creativity and innovation still fundamental to the human brain. Simy's focus at Dàxué #5 will be on developing new technology and an implementation strategy to provide a sustainable source of potable water in the absence of the major freshwater lakes, and now sterile oceans.

At age 20, Simy understands their role in perpetuating human expansion in the solar system with Earth serving as the source of innovation and leadership for all other outposts. Simy has accepted the pathway selected for them that ensures their advancement to become one of the Elite Scientists to resolve the challenge of availability of clean water. Their existence is to sustain the continuation of human life in the solar system and beyond. It is the highest honor to serve the Global Government as an Elite Scientist on behalf of the people.

#### **Scenario 4: Rational Rations**

*This is a world in which* humanity understands and accepts itself as an integral part of the Earth's biologic and amorphic systems and as a complex community of actors in a vast and interconnected societal system of human advancement. The planet is experiencing biologic, natural and infrastructure resource scarcity resulting from humanity's impact on the global biologic and ecologic systems and draw down of natural resources. This exacerbates complex challenges and catastrophic events shrinking and weakening infrastructure and systems worldwide.

Knowledge is the key in this renaissance of human identity on the planet. Optimism begins to grow as society applies its agency to meta conservancy and an acceptance of a shared common pool of resources with all life on the planet that requires an acceptance of sufficiency and sacrifice rather than luxury and waste. This acceptance of shared resources and growing collaboration combined with a growing focus on local community paves the way for the decentralization of power and governance around the world.

This growing societal agency sparks an appreciation for diversity in all its forms that leads to a focus on inclusion in the collaborative process of addressing complex and seemingly intractable problems. This participative process leads to unprecedented innovations and ideas and a vast diversification of strategies for livelihood for adaptation and resilience of all species. The focus turns strongly to stewardship, careful use of resources, and sophisticated conservancy. The populations around the world experience a rise in health as walking and bicycling replace driving cars. Diets transition increasingly away from meat products.

Education transforms into collaborative and distance learning models to reduce the carbon impact on the planet. There is a growing need for science, technology and environmental and ecologic studies. Education becomes increasingly affordable, equitable and inclusive allowing for a surge in diverse and creative approaches, insights and ideas. The humanities, a source of cultivation of empathy and compassion, deepens our relationship with the natural world beyond the limits of scientific understanding.

#### **Current Drivers and Trends Signaling the Potential of this Scenario**

The current resource depletion being experienced around the world at the time of a generational shift toward a sharing, biocentric ecology provides the basis for this scenario. Children born this year are born into a time of urgency for drastic shifts in societal practices and behaviors if humanity and living systems are to be saved. How will this shape their world view as they grow into young adults with agency?

#### **Some Strategic Questions for RSENR to Consider: In this scenario . . .**

- What areas is RSENR uniquely positioned to focus on in this scenario?
- How can RSENR's core values just, equitable, inclusive and ecologically sound practices unleash innovation and creativity in this scenario?
- What is key to RSENR successfully advancing its mission in this scenario?

## The Story of Simy...

A cargo truck rolls around the turn and stops at the inbound platform. It's the fiftieth one of the day and it's not even lunch time yet. This incoming cohort is the largest and most diverse one yet. Almost 600,000 new climate refugees are expected to settle in Vermont this year. These people are leaving behind their homes in areas that have been desolated by rising sea levels, persistent drought, and wildfires. Vermont is no longer a tourist destination for skiing; it's a designated resettlement region because of the livable temperate climate and relative abundance of freshwater which has become increasingly rare around the world.

Simy reaches out to assist the new members of their community, many of them clearly malnourished and ailing. Resources are scarce in most parts of the world. Simy leads a group of families over to new citizen processing and orientation. It's a simple and fast process that helps to acquaint the refugees to the community and most people look forward to it so they can receive their rations. A child takes the time to give Simy a hug and say a prayer of gratitude. Simy squeezes out a smile, knowing that the arrival of more refugees will really stretch the city's supplies this year.

The world isn't the same as it was when Simy was growing up. They remember a rural landscape from childhood, giant houses, and cars... cars were silly. It was around Simy's tenth birthday in the year 2030 when the last snowfall happened in Vermont. The harm caused by human activity during the previous century had set into motion a series of positive feedback loops that accelerated climate change. Efforts have shifted toward damage mitigation, the building of societal resilience, and climate stabilization, but each year the conditions around the globe seem to get worse. Food production is declining, more and more people are being displaced, and biodiversity continues to decline. As environmental degradation continued, people focused on what they still had. They started taking care of each other and taking responsibility for the injustices of the past. Simy's own neighborhood looks nothing like it used to. The market looks like a UN meeting – a far cry from the old days when only the produce was colorful.

Simy wraps up their morning shift assisting with new arrivals and walks down to the lake for class. Today's lesson is for the Guild of Aquatic Learners (GoAL). Simy will be providing the learner's perspective today. They toggle on the enhanced virtual reality (EVR) broadcasting on their mobile device and members from around the globe connect to the live feed. Simy turns the camera towards the Abenaki Elder leading the lesson. Sciences isn't the only way of knowing. We must also understand the world through social sciences and the humanities.

It's a surreal feeling – people from around the world are connected to this feed that Simy is providing. Millions of learners are seeing, hearing, smelling, touching, and even tasting what Simy uploads to the EVR. People everywhere can now share their truth and offer their perspective through EVR. Humans are trying to reinvent their relationship with the Earth and salvage an existence. Cooperation, co-learning, and co-existence emerge from sacrifice and shared suffering.

It only took an environmental crisis to make it happen.

**RSENR End State Table**

<b>Year: 2040</b>	<b>Scenario 1: Earth Charter</b>	<b>Scenario 2: Amazon Prime</b>	<b>Scenario 3: Handmaid's Tale</b>	<b>Scenario 4: Rational Rations</b>
<b>Humans in the Natural /Living World</b>	<ul style="list-style-type: none"> <li>- Porous boundaries between human- and non-human-focused spaces and activity</li> <li>- Appreciation of complex, interconnected ecosystems.</li> </ul>	<ul style="list-style-type: none"> <li>- Highly controlled and centralized management of nature</li> <li>- Humans disconnect, drawn to simulated experiences</li> </ul>	<ul style="list-style-type: none"> <li>- Natural world unmanaged is perceived as dangerous and filled with risk</li> <li>- Focus on survival and minimizing risks to human existence</li> </ul>	<ul style="list-style-type: none"> <li>- Humans understand their impact</li> <li>- Optimism and clarity grow as humans reinvent their relationship with each other and the Earth</li> </ul>
<b>Societal Agency</b>	<ul style="list-style-type: none"> <li>Empowered populous led by youth activism, characterized by freedom of thought and expression</li> </ul>	<ul style="list-style-type: none"> <li>- Laissez faire</li> <li>- Agency channeled through technology</li> </ul>	<ul style="list-style-type: none"> <li>- Weak, minimal impact on change</li> <li>- Agency is discouraged</li> <li>-Survival of the fittest</li> </ul>	<ul style="list-style-type: none"> <li>- Increased sense of agency</li> <li>- More community connectedness</li> <li>- Focus on stewardship and conservancy</li> </ul>
<b>Education (access, affordability, delivery, funding)</b>	<ul style="list-style-type: none"> <li>-Universal access, curiosity driven diversity valued</li> <li>- Highly individualized and driven by the learner</li> </ul>	<ul style="list-style-type: none"> <li>- Abundant, free, individualistic, high tech with STEM focus</li> <li>- Decentralized</li> </ul>	<ul style="list-style-type: none"> <li>- Advanced education limited to few places; for elite, those identified early</li> <li>- Apprenticeships, votech also flourishing</li> </ul>	<ul style="list-style-type: none"> <li>- Full access</li> <li>- No perceived preference: virtual vs. place-based</li> <li>- Increased demand for environ. Studies</li> </ul>
<b>Public Perception of Science</b>	<ul style="list-style-type: none"> <li>- Science accepted and highly valued</li> <li>- Fully integrated with other world views</li> </ul>	<ul style="list-style-type: none"> <li>- Necessity for and acceptance by the haves</li> <li>- Potential disconnect for the have nots</li> </ul>	<ul style="list-style-type: none"> <li>- One-way flow of information, top down</li> <li>- Science controlling force, providing security</li> </ul>	<ul style="list-style-type: none"> <li>- Science combined with richer wisdom and knowledge is the key</li> </ul>

<b>Year: 2040</b>	<b>Scenario 1: Earth Charter</b>	<b>Scenario 2: Amazon Prime</b>	<b>Scenario 3: Handmaid's Tale</b>	<b>Scenario 4: Rational Rations</b>
<b>Govt Role and Influence</b>	-Global civil society -nonhierarchical, nested functionality -Geopolitical boundaries dissolve into bioregions as the organizing factor	- Greater predictability, strong regulation - Global institutions relevant means to planetary cooperation and management	- Highly centralized, authoritarianism - Provides stability and security - Focused on shutting down civil unrest	- Focuses on basic needs equitably and sustainability shared - More collective action and management on common pool of resources - Decentralized
<b>Equity, Diversity, Inclusion (Science and Education)</b>	- Highly equitable, inclusive and diverse - Alliances of species is valued	Equity among those included, Exclusionary to significant portion of global population	- Elite band together to maintain power - Lack of respect for individual, diversity and difference	- Improved equity, diversity and inclusion - Difference of view and perspective is valued
<b>Future Generations of Leaders and Scientists</b>	- New consciousness to understand interdependence - Embody empathy, passion and appreciation for the natural world and order	- Technically trained expertise - Virtually, loosely connected leaders - Opportunities match aspirations	- Winner takes all - Elite only eligible to be leader - Scientists hand picked - Many excluded	- Focused on stewardship and conservancy - Strong collaborators - lifelong learning
<b>Learning Model(s)</b>	- Art and expression foregrounded - Reflective thinking at appropriate boundaries – deep attunement to relationships of all kinds	- Tech driven, platform enabled, drawing on curation of archival knowledge - Focused on complex, systems thinking	- Hierarchical, non-collaborative - Rote training - Tiered learning models for different purposes and desired outcomes	- Seamlessly integrate place-based and virtual technologies - Focused on providing rich background in sciences, indigenous wisdom, humanities, art

<b>Year: 2040</b>	<b>Scenario 1: Earth Charter</b>	<b>Scenario 2: Amazon Prime</b>	<b>Scenario 3: Handmaid's Tale</b>	<b>Scenario 4: Rational Rations</b>
<b>Research approach and resources</b>	- Equally receptive to reductionist and other approaches	Abundant resources, artificial intelligent researchers to process complexity	- Military, industrial complex	- Applied research grows - Research and knowledge production and delivery are done differently
<b>UVM</b>	-Institutional models of education are obsolete - Increasingly adaptive, personalized, experiential and driven by the student	- Technology driven and delivered learning - Interfacing seamlessly with smart technology and simulated learning and experience	- Few remaining higher education institutions - Focused on education of the elite and future leaders	- Unique location a benefit for environmental studies and research -Requires seamless integration of advanced connective technologies
<b>Response to Climate Challenges</b>	Effective response leads to resolution to pre-human conditions	Technologically managed	Controlled, Focused on survival to increasingly catastrophic events	Increased adaptation combined with growing stewardship and conservancy