Dreaming New Mexico (DNM)
Accomplishments

Co-Directors: Peter Warshall and Kenny Ausubel
Food Systems Director: Arty Mangan
Prepared by DNM Program Manager Nikki Spangenburg
About Dreaming New Mexico

The award-winning Dreaming New Mexico program (DNM) is an innovative Bioneers initiative to reconcile natural systems with human organization at the state level using a systems approach. Resilience arises from more decentralized, localized and redundant systems. The shift away from a society built on cheap oil and unsustainable and insecure food systems entails a radical reorganization of everyday life into a more local economy and infrastructures. The political borders on maps must transform to reflect the ecological and intensely local realities of watersheds, “foodsheds” and “energysheds.”

DNM arises from the love of our place. The DNM premise is that dreaming the future can create the future. We create a refuge and step back to ask ourselves: What would success look like? Rather than settling for what we think we can get, what do we really want? What is our dream?

To date, DNM has created breakthrough ideas, tools, processes and strategies in a widely collaborative framework including the centerpiece of “future maps” and accompanying booklets and other information for “The Age of Renewables” and the “Age of Local Foodsheds and A Fair Trade State.” The project has put these “do-able dreams” into play through strategic convenings, targeted briefings, education, collaborations and alliances.

DNM has directly affected state and municipal policies, including working with the Governor, the Governor’s Green Jobs Cabinet, and mayors. DNM has helped coalesce previously disparate NGOs and fostered multi-stakeholder collaborations around a shared vision. It has supported the work and dreams of indigenous and Hispano communities, who comprise a majority of New Mexico’s population. DNM materials are being used locally in formal educational institutions.

The project garnered a 2010 New Mexico Governor’s Proclamation (see page 19) and was named runner-up for the 2009 Buckminster Fuller Challenge award (see page 3). DNM was also selected as a semi-finalist for the 2011 Buckminster Fuller Challenge. To visit the DNM semi-finalist showcase page, please visit: http://challenge.bfi.org/2011Semi_Finalist_DreamingNewMexico.

We’ve presented the project across the United States and in Sweden, Scotland, Britain, Holland and China.

DNM has elicited requests for materials, consultations and possible partnerships with several other states and counties in the U.S. as well as internationally. We’re working toward one or more such place-based restoration partnerships.

In 2012, we completed a methodology or field guide that can be universalized and customized by other communities.

As a project of Bioneers, DNM has the ability to spread widely as a model, template and tool kit.
Jury Statement on the Runner Up of the 2009 Buckminster Fuller Challenge

Dreaming New Mexico (DNM), a Bioneers project, submitted by Kenny Ausubel and Peter Warshall, has been selected as the Runner Up of the 2009 Buckminster Fuller Challenge. In the opinion of this jury, Dreaming New Mexico brings together the tools of grassroots organizing and community leadership with scientific know-how and political savvy to both create a vision for the future and lay the groundwork for getting there. This is a fundamental leverage point for creating systemic change.

The core concept of this work is the power of transformative visioning, of imagining the world we want to see and then putting the steps in place to get us there, a process which Bucky often called designing the ‘preferred state.’

The solution tackles an issue often overlooked by problem-solvers – the political dynamic and the political barriers that often slow or stop large-scale change. The ‘dreaming’ phase of DNM brings key political decision makers to the table with the community from the beginning to work collaboratively to envision a sustainable future, in turn creating social connections and a partnership of trust that can carry the project forward. In many ways, DNM is a process for creating a new political landscape that ties together earth stewardship values with core community needs – from fresh water, to clean energy, to abundant and locally grown food.

Imagining a better future is the first step towards creating that future and DNM provides a rich community process that can be replicated across the globe to give voice to the grassroots and help us build strong local economies and sustainable, resilient communities.


A Statement from the Buckminster Fuller Institute

We are delighted to share with you that Dreaming New Mexico was selected as the runner up by the Buckminster Fuller Challenge jury. Congratulations!

The jury was very excited about the potential outcomes of the deep visioning process that makes up the core of Dreaming New Mexico, as well as the political savvy you have demonstrated and your keen interest in ensuring that the project does not live and die with the Richardson administration, but puts down roots to sustain itself for the long term. Creating a robust structure in which stakeholders can envision the future, as you know, was a core principle of much of Bucky’s work (he termed this part of the design process as articulating the ‘preferred state’), and the jurors were deeply inspired to see a team as accomplished as yours taking it on in a big way.

While there is not a cash prize associated with being selected as the runner-up, we are committed to making sure your work is celebrated at our public events and highlighted in all of our press outreach. To that end we would like to extend an invitation to a member of your core team to join us in Chicago June 5-6, 2009, for the prize-conferring ceremony and related events. Your work will be recognized at the ceremony and you will be invited to speak briefly about your project.

The Dreaming New Mexico (DNM) initiative is grappling with a fundamental question: How do citizens of New Mexico move swiftly with care and intelligence from the present unsustainable condition to a preferred state? The concept of ‘preferred states’ is central to Buckminster Fuller’s design science approach. It takes problem solving beyond the business as usual calculation of risks into the creative realm where new possibilities can be imagined and designed.

This year’s runner up understands this is a process that begins with daring to dream the future. And by daring to dream the future themselves, the Dreaming New Mexico (DNM) team has embarked on a cross-cultural, multi-stakeholder process to collaboratively map a green infrastructure and resource strategy for an entire state.
Dreaming New Mexico Accomplishments

“[Neo-conservative economist] Milton Friedman said that only a crisis, actual or perceived, produces real change, and when that crisis occurs, the change depends on the ideas that are lying around. That is our basic function, he said: ‘To keep the ideas ready until the politically impossible becomes politically inevitable.’ So what are our ideas lying around?”

Naomi Klein, author of The Shock Doctrine, at Bioneers 2008

Dreaming New Mexico has become “the ideas lying around” at the right place and time. As the following developments illustrate, since the September 2008 debut of the “Age of Renewables” map and pamphlet and spring 2010 release of the “Age of Local Foodsheds and A Fair Trade State” materials, we’ve experienced significant advances in a relatively rapid time.

At the same time, DNM was conceived as a long-term process and time horizon with the ambitious goals of creating structural, systemic change at the state level in New Mexico and developing a template and tool kit that other communities, cities and states both nationally and internationally can adapt and use. The project has experienced many challenges as well, and no doubt there are more to come. DNM will realistically always be a work-in-progress, and we honor the several other parallel kinds of projects that are also breaking new ground and achieving meaningful results. Perseverance furthers.

Various reports and other documents that delve into great detail are available on request. This “Update” is refreshed periodically as events warrant.

The project co-directors are Peter Warshall and Kenny Ausubel. On the Foodsheds project, Bioneers Food and Farming Director Arty Mangan is centrally involved. The Program Manager Nikki Spangenburg also plays a primary and represents the project publicly while implementing specific projects directly. DNM is a Bioneers project.

The two domains of Renewables and Local Foodsheds are presented separately.
An Age of Renewables Accomplishments:

Since its release in late 2008, the Age of Renewables map and pamphlet plus related analyses of Green Jobs potential in New Mexico have shown significant successes:

- In January 2009, DNM co-sponsored a successful Green Jobs Summit with our two core energy partners (New Energy Economy and Regional Development Corporation). A cross-sectoral network of 55 key influencers including government (state, city, county), business, education (higher education) and civil society participated. The Governor used the Summit to premiere his new Green Jobs Cabinet with a press conference as the climax of the event. The great majority of participants identified the DNM presentation as the highlight of the event. The DNM presentation put an analytical Green Jobs lens on the “dreams” (scenarios) the project identified for the optimal renewable energy future for the State. It led to numerous outcomes, as follows.

  o DNM was invited to present to the Governor’s two top energy policy advisors, including the Science Advisor, a 30-year Los Alamos Labs executive. The meeting resulted in an offer to co-chair a State committee on environment and energy. We deferred the invitation to two of our partners, who are better fitted to the role.

  o DNM was invited to present to the Green Jobs Cabinet. Also attending were the Secretary of Environment, Deputy Secretary of Indian Affairs, Green Economy Manager from the Economic Development Department, and special assistant from the Office of the Secretary of New Mexico Energy, Minerals and Natural Resources Department, as well as the leadership of Santa Fe Community College. The presentation culminated with a formal request to incorporate and cite our research in the State’s communications and outreach, and a stated intention to pursue several specific elements of the scenarios we offered.

  o In October 2009, the Economic Development Department released the Governor’s Green Jobs Cabinet report entitled "New Mexico’s Green Economy: Capitalizing on Assets and Opportunity". The report provides an overview of New Mexico’s green economy and a statewide strategic plan for clean technology economic development. The Green Jobs Cabinet was formed by Governor Richardson in January 2009 to promote New Mexico's green economy. The report has included several of the DNM ideas, recommendations and images. The report also gives a special thanks to the Dreaming New Mexico Project as a number of images and content has been derived from our DNM materials to use in the report.

Elements of the DNM framework embraced by the Green Jobs Cabinet report include: a focus on the green grid and decentralized energy, and the considerable job potential they could deliver to the State; developing large-scale utilities to export renewable energy out of state; the potential in green building jobs and energy-efficient renovation jobs. These include green jobs in the oil and gas industry, repairing pipes and ensuring efficient production. Other employment potential comes from biofuels, in particular algal biofuels and biogas derived from cow manure. Consideration is given as well to: converting state automobiles to biofuels; the need for new business and regulation models for utilities; the statewide need for green jobs education; and developing incentives to attract renewable energy developers to the state. The report includes the DNM maps showing the potential for Solar, Wind, and Geothermal energy, and the Regional Grid for the State of New Mexico, discussing each of
these in detail. The report also includes DNM's Environmental Justice map and the job potential for cleaning up the state and increasing environmental awareness and the desire for mitigation. The Green Economy Manager for the EDD has stated that “DNM is a valuable asset for the state and that DNM is really what started the conversation on many of these issues”. To download the report, please visit: http://nmpartnership.com/uploads/navigation/New_Mexico_Green_Economy/GreenEconomy.pdf.

- In January 2010, Governor Richardson signed Executive Order 2010-001 that outlines the state's course to building a comprehensive green economy. The executive order carries out recommendations and goals detailed in the report developed by the Governor's Green Jobs Cabinet. To download the executive order, please visit: http://www.brendanmiller.com/NMgreen/NMGreenformywebsite/www.edd.state.nm.us/greenEconomy/overview/20100113EO.PDF

- The New Mexico Green Collaborative that formed from the Green Jobs Summit has requested to incorporate the Dreaming New Mexico platform in its core agenda of goals. It’s a consortium of numerous players statewide.

- The DNM energy materials are being used as educational and organizing tools in schools and among grassroots communities including 20 Navajo and Pueblo communities. At least six Santa Fe schools are using the materials, initiated by the local Sierra Club. In addition, DNM exhibited at the New Mexico Math, Science and Environmental Education Conference in October 2010. This conference provides a network for educators throughout the state to work collaboratively towards improving education from pre-kindergarten through college. DNM exhibited the Age of Renewables and the Age of Local Foodsheds and A Fair Trade State materials at the conference. The materials were very popular and eight different schools said that they will be using the maps and pamphlets to educate their students. The New Mexico Natural History Museum asked to use the materials for educational events that will be taking place next summer. New Mexico Technical College is providing The Age of Renewables map and pamphlet to their Masters of Science teachers to use as a teaching tool. The Albuquerque Bernalillo County Water Authority is using the Age of Renewables map for one of the activities it teaches to secondary students about how water and electricity are connected and has purchased maps for all the educators.

- The Age of Renewables project was selected as sole runner-up from over 200 entries worldwide for the 2009 Buckminster Fuller Challenge, drawing attention to projects around the world whose innovative strategies have the potential to help solve humanity’s most pressing problems. Bioneers CEO & Founder and DNM Co-Director Kenny Ausubel attended and spoke at the awards ceremony in Chicago in June 2009. Dreaming New Mexico was the only other project honored along with the winner (MIT Media Lab).

- Several other states and communities as well as global entities have requested information on how to mimic the project.

- Kenny presented DNM both at the prestigious Tällberg Forum in Sweden and at Findhorn in 2009. Both presentations were extremely well received. The Tällberg event was a session with Amory Lovins and Kenny, with many highly placed movers and shakers including the head of the Swedish Academy of Engineering and a former VP from Volvo.
- Santa Fe County invited DNM to speak about public power, as per the initiative by New Energy Economy and other local groups and players to create a green public power system for Santa Fe city and county (and detach from PNM, the local investor-owned energy monopoly).

- Santa Fe Mayor Coss hosted a meeting with Bill Fulginiti, the Executive Director of the New Mexico Municipalities League (NMML), which represents all 104 mayors, a key leverage point. The meeting resulted in an offer to conduct a DNM workshop on September 2, 2010 at the NMML annual conference. The workshop was entitled “Opportunities for Municipalities: Energy Futures and the Dreaming New Mexico Project.” The topics of the workshop included: custom-designing municipal energy to New Mexico's renewable energy sources and regions (geothermal, wind, biofuels, solar, wind); the role of decentralized energy production in municipalities (micropowers, microgrids and energy farms); the importance of energy efficiency in creating green jobs and moving quickly and cheaply away from fossil fuels; and issues of energy governance between municipalities, utilities, and regional and federal regulatory and infrastructure frameworks.

  Mayor Coss mentioned how he had received very positive feedback about the workshop. DNM also exhibited at the conference and distributed the map and pamphlet to officials from all over the State. One of the highlights was the custom maps we made for municipalities. We used our base maps for solar, wind and geothermal and placed each municipality/city on each map so they could see what best large-scale renewable source is in their area. Many commented that these maps are very helpful in their outreach for funding renewable energy projects.

- At DNM’s request, the Mayor and NMML helped connect us with the head of all New Mexico counties, another key leverage point.

- DNM received a 2008 grant from the Google Inc. Charitable Giving Fund at Tides Foundation to use Google Earth technology to envision the green grid to transform northwestern New Mexico from coal to solar and wind. In 2010, DNM received a second Google grant to collaborate with New Energy Economy, our primary partner on The Age of Renewables work, on an innovative project that centers on indigenous clean energy mapping. DNM jointly produced a short film to tell the story of the historic opportunity for Navajo Nation to act as a national and global leader in the transition to clean energy in the Four Corners region, historically devastated by coal and uranium mining and energy production. Such a transition could eliminate the two major coal plants there within a decade and bring reliable prosperity to Navajo Nation while supplying clean energy to New Mexico, California and other Western states. As stated in the Scientific American, the 95 square miles of Navajo land spanning the Four Corners region of New Mexico and Arizona could provide enough concentrated solar energy to power the entire United States electricity grid.

  New Energy Economy, which works closely with Navajo communities and tribal clean energy advocates, are using the Google Earth mapping and film to build awareness of the existence and scope of these sites. Because jurisdiction or “ownership” of the projects is fragmented, this visualization is anticipated to have a powerful educational and cultural influence on continuing to advance the adoption of renewables in Navajo Nation. These visualizations are included in the short film and will be used to inform and educate Navajo communities and Tribal Council
leaders about the benefits of clean energy and green jobs in an area that has an unemployment rate above 50 percent.

With project participation from Rebecca Moore and the Google Earth Outreach (GEO) team she founded, the project used state-of-the-art Google Earth technology to map and visualize the existing renewable energy sites in Navajo Nation and then visualize the vast potential of solar energy on Navajo Nation. GEO also conducted trainings in the visualization mapping technology for Navajo and other local indigenous youth at the American Institute for Indian Arts. The training participants commented that learning this technology has opened a whole new way of telling their stories. The project will help continue to create the foundation for a more robust tribal economy, major public health improvement, and the retention of young people in Navajo communities. The benefits will accrue to New Mexico, the Western states, the country and world.
An Age of Local Foodsheds and A Fair Trade State Accomplishments:

In early 2010, we completed the map and pamphlet for An Age of Local Foodsheds and A Fair Trade State. It is strongly contexted within climate change, and connects the dots with energy issues. Agriculture and food systems are acutely vulnerable to climate change, yet this area has largely been neglected to date. The project has gained strong momentum quickly for two reasons:

- Food and farming are culturally accessible to most people (unlike clean energy issues);
- The momentum for a more localized and organic food system is entering the mainstream, both locally and nationally.

The map and pamphlet introduce the complexity of agriculture in New Mexico and present diverse dreams for the future. They include what we believe are breakthrough ideas, including:

- A mapping of distinct “eco-agricultural regions” suited to specific crops, farming and ranching methods, marketing and ecologies;
- A challenge for New Mexico to become the first Fair Trade State, because even under maximum localization optimization, more than half the State’s food will have to be imported, and local food producers and entrepreneurs must be able to export to run viable businesses;
- A challenge for ranchers and farmers to be seen and compensated as ecoservice managers, and for the creation of a certification program.

As part of the Foodsheds project:

- The front-map is a large, attractive poster-map that depicts the overall vision of the dream. The back-map consists of 12 technical maps featuring technical and other data on New Mexico food and farming systems. In addition, some maps not included on the back-map are featured in the pamphlet and/or on the website (e.g., technical maps on precipitation).

- We commissioned five studies by independent experts: Localizing New Mexico’s Food Economy (Michael Shuman); The 50 Top Future Crops for New Mexico, including biocultural crops (Gabriel Howearth); Hunger and Food Insecurity in New Mexico (Janet Page-Reeves); Hispano and Native American Farmers in New Mexico (Arturo Sandoval); Agricultural Statistics and Profiles by Agro-ecoregion (Ken Meter).

- Other internal research includes:
  - Community Supported Agriculture: identifying all CSA farms in New Mexico, with input from Le Adams of Farm to Table, Steve Warshawer of the La Montanita Foodshed Project and Denise Miller of the New Mexico Farmers Market Association.
  - Foodshed and local economy: Boundaries of Montanita Foodshed: number and acres of organic farms, location of farmers markets, Railrunner route, direct sales from farms to retail and number of farms involved.
  - Biocultural crops: DNM compiled a list of New Mexico biocultural crops based on research using the University of Michigan Ethnobotany database, Slow Foods Ark of Taste, RAFT (Renewing American Food Traditions), USDA listing of New Mexico endangered plants; as
well as input from Brett Baker, formerly of Native Seed Search (NSS), Suzanne Nelson of NSS, Josh Cravens of the Arid Crop Seed Cache, Miguel Santistevan of Sembrando Semillas, Donna House, and Gabriel Howearth. Key crops are included in the mapping materials and the full list is available on the DNM website.

- **Agro-ecoregions**: determined agro-ecoregions of New Mexico and mapped them, major crops and livestock by agro-ecoregion, percentage of crops vs. livestock cash receipts by agro-ecoregion, number of acres in each agro-ecoregion.
- **Food Processors**: Compiled a listing and profiles of New Mexico food processors based on New Mexico Department of Agriculture data and other data-bases.
- **Food security**: poverty by county, food stamps by county, overweight high school students by county, obesity and diabetes by region, asthma and CAFOs (Concentrated Animal Feeding Operations) and locations, density of food stores by agro-ecoregion.
- **Climate change and weather**: precipitation maps, climate diagrams of seasonal change by agro-ecoregion, projected temperature change from climate change map, carbon sequestration map.
- **Land management**: tribal and acequia lands, State lands, federal lands with grazing permits, homestead lands, land grant lands.
- **Farms and food**: Number of farms by agro-ecoregion, acreages of farms by agro-ecoregion, major crops by agro-ecoregion, nurseries by agro-ecoregion and levels of profit/loss.
- **Seed Banks and Seed Events**: A list and map by bioregion of seed banks and seed events.
- **Farm To School Programs**: A list and mapping by bioregion of farms to school programs.
- **Land and water protection**: Water banks, acequia lands, number of wells and their distribution, major agriculture diversion dams, percentage of water used for agriculture by agro-ecoregions, conservation easements and land trusts, Range Stewardship Incentive Program lands.
- **Livestock**: number of ranches and cattle by agro-ecoregion, number of feedlots by agro-ecoregion, number of dairies by agro-ecoregion, number of sheep, goats, bison, horses and chickens, amount of hay for livestock, amount of grazing per agro-ecoregion.
- **Environmental impact**: agriculture-polluted groundwater, species threatened by agricultural practices, groundwater basins vulnerable to deletion from agricultural extractions.
- **State economy**: cash receipts by agro-ecoregion, livestock processors, some crop processors, dairy processors.

- We have filmed many video interviews with Native and Hispano farmers and food systems experts, including Secretary of Indian Affairs Alvin Warren. These interviews are being shown on the government public access channel in Santa Fe and community access station in Los Alamos.
- The DNM website is continually updated and enriched including these filmed elements.

**The Food System Summit**: The Foodsheds map and pamphlet debuted at the DNM Food System Summit that we convened on March 10-11, 2010 in Santa Fe (the state capital). We collaborated to varying degrees with numerous local groups in the design and sponsorship of the event. Feedback indicates that it was well received by participants, and was successful in many ways.

- It marked the first time that such a diverse and comprehensive group of food systems leaders has gathered.
• Participation included Native American and Hispano leaders, key government officials from all levels, virtually all the principal NGOs, and donors (local and some from out of state).
• It helped numerous and disparate players and components of the New Mexico food system to see themselves as a system.
• It enhanced some existing collaborations and catalyzed new ones.
• Many people commented that the DNM research and presentation provide a reliable picture of the state of the State’s food system as a common basis for further analysis and action.

Among the government representatives were: the New Mexico Green Jobs Cabinet and New Mexico Department of Agriculture (NMDA); New Mexico Economic Development Department; the offices of Senators Bingaman and Udall; New Mexico Environmental Improvement Board; Santa Fe County; Santa Fe Mayor David Coss; Secretary of Indian Affairs Alvin Warren; and the New Mexico Organic Commodity Commission. Representatives participated from educational institutions including the New Mexico State University (NMSU) Department of Agricultural Economics and the University of New Mexico (UNM) Sustainability Studies Program.

Among other Summit highlights:

• The idea of agro-ecoregions gained traction and may become embedded as a central organizing principle of food system transformation.
• The “dream teams” (working groups) produced excellent insights for immediate and long-term action across all domains of activity, from farm practices to policy. The collective wisdom of the group emerged strongly beyond what any one player or group could have contributed.
• The Finance dream team has continued to meet (a new collaboration) and is actively working on micro-credit and micro-enterprise strategies, as well as compiling an extensive list of federal funding sources for agriculture in New Mexico.
• University of New Mexico (UNM) will use The Age of Local Foodsheds materials in one or more courses.
• There was explicit public feedback from Native and Hispanic participants that the Summit was respectful and productive.
• DNM was invited to meet with the Executive Directors of the respected National Hispanic Cultural Center and the Indian Pueblo Cultural Center (located in Albuquerque) to discuss the synergy between DNM and their From Field to Feast program. Its mission is to promote an appreciation and understanding of the agricultural and culinary legacies and living traditions shared between Pueblo and Hispano communities in New Mexico. Their programs and Centers provide formal education credit and curricula.
• DNM was invited to participate in the New Mexico Department of Agriculture (NMDA) small working group to deliver to Governor Richardson its recommendations on how to move sustainable agriculture forward in the state and create greens job in the food system, as per the Governor’s Executive Order.
• DNM was invited by the New Mexico Association of Grantmakers (NMAG, 65 members statewide) to brief its members on philanthropic leverage points in the food system.
Briefings and Meetings, Post-Summit:

Following the Summit, DNM has held multiple action-oriented briefings and meetings. Generally Peter Warshall prepared customized presentations and power points, detailing specific opportunities in specialized contexts (available by request or on the web site).

**Governor Bill Richardson:** We met with Governor Bill Richardson to present a list of executive and administrative actions the Governor could take during his final eight months in office. The Governor had his main policy advisor present, as well as Gay Dillingham of the State Environmental Improvement Board who arranged the meeting. The Governor agreed to seven of the eight recommendations we made (the eighth is out of his control). Among them is to use State procurement policy to advance the market for local and organic foods, which would be a game-changer (10% of all food sales). We worked to write an Executive Order and continue to move the process forward. (See ”Senator Keller and Farm to Table” below.) At our recommendation, the Governor did declare a Traditional Agriculture Day to celebrate the State’s rich Native American and Hispano food and farming traditions. To download the proclamation, please visit: http://www.dreamingnewmexico.org/files/TraditionalFoodsandFarmingDayProc.pdf/at_download/file. Unfortunately, the Proclamation was for only one year, and we will work to make it a perennial event. The Governor also made a Proclamation praising DNM and Bioneers for our service and proclaimed June 25, 2010 officially as “Bioneers-Dreaming New Mexico Day.” To download the proclamation, please visit: http://www.dreamingnewmexico.org/files/Bioneers-DNM-Proclamation.pdf/view.

**New Mexico Department of Agriculture:** Having heard “excellent feedback on the Summit,” Paul Gutierrez, the liaison from the New Mexico Secretary of Agriculture to the New Mexico Green Jobs Cabinet, convened a small working group in which DNM was one of three NGOs who participated. Its purpose was to provide recommendations to the Governor (as above) on June 1st for how to move sustainable agriculture forward in the state and create green jobs in the food system. We presented numerous frames, ideas and specific actions.

The work of DNM had a strong influence on the NMDA report, which includes many of our dreams (listed as recommendations). We were happy to see support for: value-chain analyses for key agrifood markets; financial and business actions for sustainable agriculture; the development of high-value agricultural crops, including organic and natural beef farmers and ranchers; conservation easements; the resolution of out-dated water rules with new rules for increased water conservation, and more. The new NMDA concerns with food aggregation, storage, processing and distribution mark a creative addition to State policy to build local and regional food systems. All of these were central to our report and thinking. Most exciting was the inclusion of "food hubs" and "food enterprise zones" for each regional foodshed of the State. This was one of DNM's highest priorities. Another priority, the increased procurement of local and healthy foods by State institutions such as schools, is also in the report. To download a copy of the report please visit: http://nmdaweb.nmsu.edu/events-and-publications-folder/clean%20energy%20action%20doc.pdf
Santa Fe Mayor David Coss: We met with Mayor Coss, who brought the head of Santa Fe Economic Development Division, a top land use planning official, and the head of Public Information. After the presentation, the Mayor identified about five major areas he wanted to act on immediately, including the preservation of farms and arable lands and the creation of food system green jobs. Surprisingly, the city had not previously recognized the food system for its green jobs potential. We were also invited by the Economic Development chief to meet further to explore the creation of food system business clusters, and potentially to apply for a grant to further that process with several other leading NGOs with whom we already work.

Secretary of Indian Affairs Alvin Warren: Secretary Warren, who is already close to the project and is a mapping specialist, proposed that he directly support the enactment of relevant recommendations we made to the Governor. Secretary Warren indicated his desire to continue to work with DNM when he returns to private life in 2011.

New Mexico Association of Grant Makers (NMAG): DNM hosted a webinar for members of NMAG. The purpose of the webinar was to introduce NMAG to the Age of Local Foodsheds map and pamphlet and to identify the key strategic drivers and levers of change in the New Mexico food system as a compass for assessing philanthropic and investment decision-making. Taking a whole systems approach allows for more considered pathways to effective interventions. It also invites greater coordination or collaboration among funders. We have received very positive feedback from the webinar. The executive director mentioned that this was the highest-attended webinar that the NMAG has hosted. NMAG has invited an ongoing process to follow up on specific opportunities and recommendations.

National Hispanic Cultural Center (NHCC) and Indian Pueblo Cultural Center (IPCC): Food has become the principal bridge on which New Mexico’s Native American and Latino cultures are coming together after many centuries of carrying the “burdens of history” of the Conquest. These two respected Albuquerque-based institutions are formally collaborating on several major educational and cultural outreach projects, including the 3rd annual From Field to Feast program. We met in late spring and they invited DNM to become closely involved, as well as to help adapt our materials into exhibits for their institutions, which in turn will serve as formal curriculum. They were effusive in their praise for Bioneers and DNM, and proposed a multi-year collaboration. (Biocultural preservation and reinvention for the modern age are central elements of the Age of Local Foodsheds materials.) At the meeting, we discussed the prospect of designing a biocultural component as a toolkit appropriate for school curricula drawn from “The Age of Local Foodsheds and A Fair Trade State.” We will follow up with the cultural centers in early 2011 to discuss the next steps of our collaboration.

From Field to Feast 2010 culminated in a weekend event on October 16th and 17th celebrating harvest time and the shared agricultural and culinary legacies of Pueblo and Latino communities. The goal was to invite community members to partake in a weekend’s worth of activities highlighting the agricultural and culinary practices of New Mexico’s Latino and Pueblo communities. The educational and social event was designed to reflect the creative practices embedded in those traditions, and to catalyze and inspire
renewed interest in the traditions, as well as innovative and new creative and practical initiatives.

With support from the New Mexico Community Foundation, Bioneers/DNM provided a special exhibit that was displayed at both the NHCC and IPCC that included the DNM Age of Local Foodsheds map and pamphlet, the “biocultural legacies” poster associated with the Age of Local Foodsheds map, the DNM Zia Garden poster, and screenings of DNM-produced videos about biocultural crops and saving traditional farming methods in New Mexico.

More than 3,000 people attended the weekend events. NHCC commented: “The entire event was enhanced by the presence of a few key partner organizations including Dreaming New Mexico. The beautiful poster/information displays, the comprehensive information brochures, and the well-produced and richly interesting audio and video interviews were fantastic materials that provided clear, vital information relating to the theme of our event. We are extremely grateful for the generous support of Dreaming New Mexico and look forward to future collaborative opportunities.”

Center for Southwest Culture (CSC), Arturo Sandoval: Under a New Mexico Community Foundation cluster grant, DNM collaborated with Arturo Sandoval/CSC to support DNM outreach with Native American and Hispanic communities (as above) with the National Hispanic Cultural Center and Indian Pueblo Cultural Center. To complement the DNM exhibit, CSC identified and recruited two poets, Reed Bobroff (Dine) and Carlos Contreras (Chicano), to recite and perform their original poetry at the event. In addition, CSC recruited two popular local bands that were instrumental in attracting Latino and Native American youth to the From Field to Feast event.

La Montanita Coop: One of the best coops in the country, La Montanita is a DNM ally and a collaborator with the From Field to Feast program. It will work in support of these efforts. Additionally, La Montanita invited DNM to participate in a La Montanita/KUNM local radio station public education event. In November, Arty Mangan participated in this event, where Michael Pollan’s Bioneers’ plenary was shown along with the award-winning film Genetic Chile and the DNM video Biocultural Crops and Traditional Farming. Mangan introduced the Biocultural Crops film and participated in a Q&A with filmmaker Chris Dudley and anti-GMO activist Isuarra Andulaz.

Celebrando Las Acequias Event: DNM (Arty Mangan) presented the DNM Foodsheds work at the “Celebrando Las Acequias” event in June in northern New Mexico. It brings together Hispanic leaders working with the traditional acequia system. We received very positive feedback about the presentation and the DNM materials. Arty also met the head of the Taos Farmers Market who asked to distribute the DNM materials at the market.

Lois Ellen Frank: Lois is a well-known Native American author and chef who teaches at the Institute for American Indian Arts (IAIA). She is using the DNM information in her doctoral dissertation entitled “The Discourse and Practice of Native American Cuisine: Native and Non-Native Chefs and Cooks in Contemporary Kitchens”.

Peter Warshall, Bioneers Keynote and DNM Workshop: Peter Warshall presented a keynote on the DNM Age of Local Foodsheds at the 2010 Bioneers conference. It was well received and reached the live audience in San Rafael (c. 2,000) as well as the Beaming Bioneers sites (c. 8,500). It was
additionally webcast to thousands more viewers. To view Peter’s keynote, please visit: http://www.dreamingnewmexico.org/food.

DNM hosted a lunch at the conference with key allies. In addition, the Dutch Consul General, who attended the conference and with whom Bioneers Global is collaborating, expressed interest in bringing awareness of DNM to Holland. Discussions advanced with the Pachamama Alliance about a partnership using DNM materials for its “Awakening the Dreamer” symposia.

The DNM team also conducted a workshop at the event. It was very well received and the exposure will spread the ideas and model significantly.

In addition, Lois Ellen Frank, one of the interviewees for the DNM video series, was the executive chef for the Bioneers Food and Farming Banquet, and she participated in the Bioneers Indigenous Forum workshop: Protecting Mother Corn and presented on a workshop panel: How Women Change the Way We Eat.

Louis Hena, of Tesuque Pueblo, also spoke at the Indigenous Forum workshop: Protecting Mother Corn, and spoke in a Bioneers workshop: Permaculture For Humanity.

Emigdio Ballon, Gailey Morgan, and Everett Reynos of the Tesuque Pueblo Farm were co-hosts for the Seed Exchange held at the Bioneers Conference.

New Mexico Math, Science and Environmental Education Conference: This conference provides a network for educators throughout the state to work collaboratively towards improving education from pre-kindergarten through college. DNM exhibited the Age of Local Foodsheds and A Fair Trade State and the Age of Renewables materials at the conference. The materials were very popular and eight different schools said that they will be using the maps and pamphlets to educate their students. The New Mexico Natural History Museum asked to use the materials for educational events that will be taking place next summer.

Senator Tim Keller and Farm to Table: Peter Warshall and Nikki Spangenburg met with Senator Tim Keller and Farm to Table to work with him on a local food procurement bill. He is using DNM language and recommendations throughout the bill in an effort to get state institutions to purchase 10% of their food from local sources. This is one of the main dreams that came out of the foodsheds work. He also worked with us on a final draft of the proposed Executive Order for local food procurement that was invited by Governor Richardson (mentioned above). As a result of the November 2010 elections and changed political climate of a conservative Governor, in consultation with the Governor’s policy advisor and others, we elected not to pursue the creation of the Executive Order because it could become a partisan issue. Instead we are working directly with Senator Keller and Farm to Table in support of Senator Keller’s legislation, to which DNM gave substantial input now reflected in the bill. The bill passed its first committee on February 1, 2011. Nikki Spangenburg attended the hearing and spoke in support of the bill. The bill was passed at the 2011 Legislative Session. Unfortunately, the bill was one of many that was pocket vetoed by the Governor. We will continue our work in support of this bill and work to get it passed at the next legislative session and signed by the Governor.
Traditional Agriculture and Sustainable Living Conference: Arty Mangan gave a keynote address on Dreaming New Mexico: An Age of Local Foodsheds and A Fair Trade State at the Traditional Agriculture and Sustainable Living Conference at Northern New Mexico College in November. The conference was produced by the Native Earth Biocultural Council (comprised of Tewa Women United, Indigenous Knowledge Institute, Traditional Native American Farmers Association and Tesuque Pueblo). One of the other keynote speakers was Winona La Duke of the White Earth Recovery Project. Two professors from Northern New Mexico College said they are interested in using DNM materials in their classes, and representatives from Earth Care International want to use DNM materials in sustainability classes at the high school level.

Quivira Conference: Nikki Spangenburg attended and exhibited at the 9th Annual Quivira Conference entitled The Carbon Ranch: Using Food and Stewardship to Build Soil and Fight Climate Change. DNM shared a booth with the Southwest Grassfed Livestock Alliance and was also asked to speak about DNM at their Annual Meeting that took place at the conference. The DNM materials were extremely popular and many commented on how useful and crucial the DNM materials are to their planning and collaborations.

Nikki was approached by a board member of the Environmental Educational Association of New Mexico (EEANM) who is also an Ecologist/Educator with the U.S. Fish and Wildlife Service. He is presently working in collaboration with various groups in Albuquerque to develop a youth training education program that involves ecology, culture and the green economy. This program is called Instituto Sostener (Sustainability Institute) and will be housed at the National Hispanic Cultural Center. The DNM maps and several key concepts are included in their program.

DNM Presentations In Europe: Kenny Ausubel presented DNM to various parties in Europe. In London the Gaia Foundation hosted an event attended by about 90 people including numerous activists, educators, Transition Town representatives, authors and scientists. Kenny met in depth with several other interested parties including Schumacher College, who are interested in developing related educational materials and are located in the birthplace of the Transition Towns movement. Kenny made a presentation to over 100 people at the Findhorn, Scotland Beaming Bioneers conference, where interest also ran high among participants from 22 countries. Discussions are underway with multiple parties including leaders of the Transition Towns movement and the Clear Village Network about how they might incorporate DNM tools.

DNM Presentation to Chinese Policy Makers: Kenny Ausubel presented DNM at Climate Dialogue, a major conference in Hong Kong of Chinese policy makers, municipal leaders and other global actors. The two-day conference was linked with the subsequent two-day annual C-40 conference of mayors of large cities taking climate leadership (http://climate.dialogue.org.hk). The DNM presentation attracted about 90+ attendees, principally Chinese policy makers and municipal leaders, and follow-up is ongoing. In the C-40 meeting, Kenny participated in a side meeting of Culture Futures related to advancing cultural engagement in C-40 cities to help gain greater political traction. He discussed DNM and shared materials, and is following up as to a potential role for Bioneers/DNM in future C-40 events. Discussions are underway with the conference organizer Christine Loh of Civic Exchange about possibly organizing a future event or convening focused specifically on localization and DNM as it could relate to China. The leading food/farm group in Hong Kong expressed strong interest in applying DNM locally, and proposed to sponsor a return visit to advance this possibility.
**California Age of Local Foodsheds/Regenerative Design Institute:**
The Regenerative Design Institute, a respected permaculture education and training organization with long ties to Bioneers, is actively exploring the potential of creating an Age of Local Foodsheds project in the greater Bay Area in which DNM would play a consulting role.

**Gary Nabhan:** Peter Warshall met with a group that will edit a complete issue of Edibles, a magazine celebrating the abundance of local foods, season by season. Peter talked about the methodology of DNM and then facilitated a group discussion about how to dream about the future of the Southwest and food and gaps for the Edibles magazine. Peter will do further consulting on the Edibles issue. The issue is organized by Gary Nabhan, who was inspired by the DNM materials, and it includes contributors from New Mexico and Arizona. Nabhan is a respected ethnobotanist, author and active member of Slow Food and its RAFT program to preserve traditional Native American and U.S. cuisines. Peter will write on food and water. Gary plans to adapt the mini-essays from the issue into a book. Gary has also expressed an interest in creating a Dreaming Arizona. Conversations are ongoing.

**Arizona State University:** A representative of the department of University Initiatives in the President’s Office at Arizona State University contacted us on how she might start a similar process for Arizona. In an extensive conference call, two ASU representatives stated their intention to start Dreaming Arizona and their desire for DNM to play a consulting role on the project. Unfortunately, ASU contacted us in May to notify us that due to severe budget cuts, they cannot pursue the project at this time but look forward to pursuing it in the future.

**Eco Farm Conference:** Peter Warshall did a keynote presentation on DNM at the influential national Eco Farm Conference in January 2011. Peter and Arty Mangan also participated in an Eco Farm workshop with Robin Sidel of La Montanita Coop, titled *Creating Alternative Capital to Grow Regional Food Systems*. About 1,500 people were in attendance. Feedback has been very positive on the presentation and workshop. It has attracted a highly qualified potential intern with a Masters in International Environmental Policy who would like to intern on the Ecoservice Portfolio Management plan we’re developing. It further resulted in an inquiry to collaborate on a substantive Ecoservices project in California with the Marin Agricultural Land Trust.

**New Mexico Organic Farming Conference:** DNM attended and exhibited at this conference in February 2011. Attendees included growers and researchers from around the country as well as southwest organic agriculture specialists from the 4-corners states. Natural food retailers, backyard gardeners, and county extension/academic people were also in attendance. The two-day event featured workshops on livestock and crop production, marketing, and compliance with organic standards. The DNM exhibit was very well attended and many purchased maps and pamphlets. Many educators and representatives from the USDA communicated their desire to work more closely together. Students from the University of New Mexico stated how valuable the materials are to them in their studies and how they are formally being used in their classrooms. A representative from U.S. Fish and Wildlife gave a presentation at the conference that included the foodsheds maps and research.

**New Mexico Native Green Loan Fund:** As invited, Kenny Ausubel and Nikki Spangenburg gave a presentation in August 2011 to members and funders of the New Mexico Native Green Loan Fund. The focus of the presentation was identifying leverage points in the system and making
recommendations that could help create change faster by focusing targeted investments on tribal lands.

**BALLE Annual Conference:** As invited, Peter Warshall presented “An Age of Local Foodsheds and A Fair Trade State” at the annual BALLE conference in June 2011 in Bellingham, Washington.

**TedX Albuquerque:** In September of 2011 Peter Warshall presented the Dreaming New Mexico project at the TedX conference in Albuquerque. The conference achieved solid success with over 700 people in attendance and over 60,000 viewers across 3 simulcasts throughout New Mexico.

**DNM Web Site:** The food and farming portion of the DNM website has been updated to reflect the scope of the Foodsheds work. This includes: re-design of the homepage, creation of a new sidebar to easily access different aspects of the foodsheds work, updating each section of the foodshed domains with downloadable maps, text, research papers, video interviews, further study, dreams, and additional maps. We are currently working on a glossary of food terms and are working on expanding links to other groups who are working on similar issues. [www.dreamingnewmexico.org](http://www.dreamingnewmexico.org).

**DNM Methodology**

We released the DNM methodology in 2012 and within the first two weeks it was downloaded over 7,000 times. Based on extensive feedback, the primary orientation surfaces the specific approaches, practices and tools we’ve created or used that can be adapted and customized by other place-based restoration initiatives. Clearly every place is different, yet there are universal principles and approaches that can be applied in most places. For instance, the innovations of the “dreaming” process and the creation of “future maps” will be a central focus. There is widespread interest both in the U.S. and in Europe, and possibly in China. To download the digital methodology, please follow this link: [http://www.dreamingnewmexico.org/files/Dreaming-Planet-Earth-Methods.pdf](http://www.dreamingnewmexico.org/files/Dreaming-Planet-Earth-Methods.pdf).

**DNM Lesson Plans**

The lesson plans were professionally developed from Dreaming New Mexico’s Age of Renewables and Age of Local Foodsheds maps and booklets. Many schools have already been using the maps and booklets in the classroom and the feedback we received from educators is that lesson plans on these important topics would be most useful. They were created to provide educators and students with place-based curriculum that educates them on the different aspects of energy and renewables in New Mexico and the value of New Mexico foods. Each set of lesson plans includes a teachers’ guide and extended idea activities for the lesson plans. To download the lesson plans, please visit: [http://www.dreamingnewmexico.org/about-dnm/lesson-plans-1](http://www.dreamingnewmexico.org/about-dnm/lesson-plans-1).

**In Conclusion**

DNM has made significant advances, and clearly there’s a long way to go. We’ve witnessed the almost mycelial spread of localization movements, some of which are starting to go mainstream, such as the local food movement. Many of these efforts stumble on the doorstep of the “how” of making transformative change. Any effective response must be eminently practical – addressing the real-world challenges of creating a truly green and economically viable infrastructure and economy – as well as astutely political – dealing with the realities of local, national and global politics. Leadership development is key.
It remains our strong conviction that building sustainability from the bottom up is crucial, though not sufficient by itself. It’s equally our conviction that the parallel place-based restoration initiatives independently bringing forth vital pieces of the puzzle need to become better connected as networks to share the most promising practices and learning, including valuable lessons from failures.

We greatly look forward to playing our part in the growing networks building resilience from the ground up and making systemic change.

With deep gratitude and appreciation from all of our DNM team and Bioneers –

Kenny Ausubel  
Co-Director, Dreaming New Mexico  
CEO + Founder, Bioneers
WHEREAS, Bioneers was founded in Santa Fe, New Mexico in 1990 by residents Kenny Ausbel and Nina Simons to promote practical and visionary solutions for restoring people and planet, and has operated for over 20 years with New Mexico as its home; and

WHEREAS, Bioneers has gained national and international acclaim as an educational forum and communications media outlet for social and scientific innovators focusing on breakthrough solutions inspired by nature’s genius and human creativity; and

WHEREAS, the work of Bioneers has brought favorable recognition to New Mexico as a hub of innovative environmental thinking, practices and values; and

WHEREAS, Bioneers initiated the Dreaming New Mexico project to help provide New Mexican citizens with affordable, safe, fresh and nutritious food, food grown, processed and distributed as much within the State as possible; food grown with eco-friendly, humane and climate-friendly methods that benefit both rural and urban communities and revitalize our agrarian communities with legacy-defining crops and cuisines and green jobs; and

WHEREAS, Dreaming New Mexico has helped the State envision a future with reliable and secure energy (largely from renewable sources), delivered at a fair price that creates good jobs and new businesses, fosters movement away from fossil fuels, the emission of greenhouse gases and inefficient energy use, and towards distributed power production with a newly reconfigured green grid, and does no harm to the State’s health and environment; and

WHEREAS, Dreaming New Mexico has given hope to future generations, has worked to connect older to younger generations and find common ground for the great diversity of the State’s peoples, has identified practical ways that tribal, city, town, the State and regional governance as well as the non-government and business communities can nurture the State’s sense of history, culture, pride, equity and security; and

WHEREAS, Dreaming New Mexico has worked to inform, inspire, educate and celebrate local and regional sustainability and a conservation-based economy; and

WHEREAS, Dreaming New Mexico has provided a leading-edge model that has received national and international recognition and stimulated requests from other communities on how to implement such a process;

NOW, THEREFORE I, Bill Richardson, Governor of the State of New Mexico, do hereby proclaim Friday, June 25, 2010 as:

“Bioneers – Dreaming New Mexico Day”

throughout the State of New Mexico and commend Bioneers and the Dreaming New Mexico Project for its collective and extraordinary commitment to environmental and socio-economic restoration and to its own community of New Mexico.

Attest:

Mary Herrera
Secretary of State

Done at the Executive Office this 14th day of June, 2010.

Witness my hand and the Great Seal of the Great State of New Mexico

Bill Richardson
Governor
STATE OF NEW MEXICO  EXECUTIVE OFFICE  SANTA FE, NEW MEXICO

Proclamation

WHEREAS, New Mexico has a long history as a place defined by and celebrated for its rich confluence of cultures, and where food and agriculture have always played a vital biocultural role; and

WHEREAS, New Mexico retains the agrarian wisdom of traditional farming practices, such as Zuni waffle gardens, acequia irrigation, floodplain gardens and dry-land farming, which have been accompanied by people’s development of biocultural crops and breeds, including corn, squash, beans, chile, pinon, wild greens, wild potatoes, Churro sheep, Criollo cattle and many others; and

WHEREAS, the traditional agrarian ethos offers the understanding that land and water and seeds are gifts that unite and sustain kin and community over time, and that all wild and cultivated animals and plants are dependent on each other, and deserve respect and gratitude for sustaining us and helping preserve the beauty of New Mexico; and

WHEREAS, these vital agrarian traditions have been waning and many cultivars and even cuisines are rare or at risk such as Rio Zape bean, Four Corners gold bean, Bolita bean, native tomatillo, Wenks yellow hot pepper, Chilipin chile, Chinayo chile, chicos corn, and blue corn piki bread; and

WHEREAS, the State of New Mexico seeks to honor the dedicated Native American, Hispanic and Anglo-European groups and individuals working to preserve heritage crops and animals, as well as the traditional knowledge and methods associated with traditional agriculture, which includes seasonal ceremonies, special meals, and community values such as querencia and tierra sagrada, holds elegant historical significance, as well as high contemporary value in continuing to provide nourishment, health, cultural identity, way of life, practical survival skills and a source of income;

NOW, THEREFORE I, Bill Richardson, Governor of the State of New Mexico, do hereby proclaim October 12, 2010 as:

“Traditional Foods and Farming Day”

throughout the State of New Mexico, and encourage all New Mexicans to celebrate and preserve this rich New Mexico heritage and honor traditional farmers, seed savers, land-race plant breeders, guardians of traditional ceremonies, mayordomos and parciantes, chefs and households cooking with biocultural crops, and all those who express reverence and gratitude for the land and its offerings.

Attest:

Mary Herrera
Secretary of State

Done at the Executive Office this 21st day of September, 2010.

Witness my hand and the Great Seal of the Great State of New Mexico

Bill Richardson
Governor