

August 13, 2018

Terrance Garmon, ICC and

NextGrid Illinois work groups on Consumer and Community Participation, and Regulation Environment

From note send during public comment period of NextGrid working group meeting August 5, 2018, see below comments concerning Designing for Productivity issues of integration of Smart Grid utility planning into multi-utility planning for the state and for local substation and other local Community District areas. They are linked with the pioneering work of IIT School of Design work of user-centric and community-centric design for lifecycle management and watershed resiliency, and include both regulated and non-regulated state regulated local utilities, such as water/sewer, and local roads/easements, and linked with 20 years of work in Communication-related demand side-supply side cooperation, including integration of communication and sensor data in NSF and Department of Commerce/USDA/Department of Labor/Department of Education-defined Smart and Connected Communities.

In addition to review by NextGrid work groups, I would recommend comments by

1. Municipalities, Counties and other local and regional units of government (and associations of such governments and regional planning agencies with Federal land use and transportation priority setting for infrastructure and service funding), and Illinois initiatives for implementation of cooperation, consolidation and productivity of almost 7000 local of units of Illinois public governance. See Transform Illinois <https://www.transformillinois.org/>
2. Smart State-Local initiatives, including those of Illinois Department of Innovation and Technology <https://www2.illinois.gov/sites/doi/Strategy/Pages/SmarterIllinois.aspx> , Illinois Department of Transportation (including state-local databases of fiber connections and easements), and initiatives designed to expand Internet extension in rural and urban areas toward 95-98% regular use of Internet (like TV penetration), and Illinois Department of Natural Resources, and local watershed mapping resources for localities and utilities. Plus, through Big data university extension services, linked with community college/health network services and local Community Anchor Institutions (schools, health, libraries, public safety, government services, commerce, watershed monitoring). See below resources on expected NSF funding this fall of 3 year multidisciplinary research on Smart and Connected Communities.
3. Federal cybersecurity guidelines for Critical Infrastructure in utility, local governance and Community Anchor Institution monitoring, and development of annual local area service quality assemblies, all of which will benefit significantly by multi-utility cooperative planning, mapping, outreach and service quality, leading to bending the current curve on rising user costs for families, businesses and communities for transition to Smart management.

Thank you for your pioneering work, including the amazing resources of U of I Engineering to help develop a national model. I enjoyed participating in the kickoff event last fall, and listening in on June's Public Forum in Chicago.

I would be glad to provide additional information.

Layton Olson

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*Local Innovation Solutions in
Safe and Healthy Communities*

Building Blocks of the Body Politic

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June 8, 2018

Comment on methodology for use of Multi utility districts as Local Place Area building blocks, along with Neighborhood Community Districts (census blocks or tracts), Education and Public Safety Areas, Commerce, Community College, Health and Regional Planning areas.

Comments of Layton Olson, Internet Public Trust, submitted June 8, 2018 to Next Grid Illinois as issues for Community Participation and Regulation and Environment working groups.

Issues for NextGrid Utility of the Future Illinois Commerce Commission study to address

The adoption of multi utility framework for Smart Community utilities and community districts of the future, including frameworks for cooperation in mapping, cybersecurity, tracking usage and other data, service quality and coordinated regulation and simplified reporting in community-centric public and private investment and civic engagement, all designed for data driven and transparent productivity including lower costs, improved quality and world Digital Economy competitiveness. Including integration of investment, outreach, evaluation and community dashboards in Smart Communities at census tract, utility, school and local commerce community district areas, and linked with universal Basic Internet service use (target 95-98% similar to and greater than TV penetration) for health, education, public safety and commerce, based on Illinois Smarter State leadership, and national broadband plan and cybersecurity framework for utilities and other critical infrastructure.

Background of qualifications and capabilities of Internet Public Trust and linked networks beginning with City Innovation as community-business-education-health-government-media partnership in 1995, and Resources

Internet Public Trust arises from over 20 years of work in the field of Telecommunication and Economic Development initially in underinvested rust belt communities of Far South Chicago, South Cook County and Northwest Indiana, and in Community Intervention in Ameritech Illinois-SBC merger 1998-1999 by the Bridging the Digital Divide Coalition of several dozen community parties. The merger generated \$7.5 million in community benefits including for utility outreach and funding of technology literacy centers in low wealth areas across Illinois. It also led to Illinois Eliminate the Digital Divide Infrastructure and Grant Programs to bring fiber and wireless connectivity to rural areas, and to expand digital literacy in economically distressed communities, and the development of Illinois Community Technology consumer centric leadership network 2003-2006, with evaluation of impact by University of Illinois Extension. It also led to widespread demand side participation in Illinois High Speed Internet act, Illinois Broadband Deployment Task Force and initiatives resulting in over \$250 million in Illinois broadband infrastructure and service investment in Federal Recovery funding, and the development of IDOT responsibility for fiber conduit installation along highways and tollways and database available to carriers, transportation parties and local governments. Activity included writing articles in 2011-2012 on application of broadband to meet 7 national needs described in FCC National Broadband Plan (2010), and participation in activities of US Ignite in Illinois, and in Smart Community planning in other states. Recent activity has involved assisting Digital Opportunity, Smart Community and Safe and Healthy Community networks in rural and urban community district and Transform Illinois government performance models, including in partnerships with Big Data universities, and in the development of Investing in All Communities Agenda for Digital Age for community, government, business, foundation, administrative and legislative investment, especially in Digital Opportunity areas, during 2018-2020.

Resources

1.FCC National Broadband Plan 2010 7 national needs including Energy/Transportation/Environment <https://www.fcc.gov/general/national-broadband-plan>

2. Partnership for a Connected Illinois articles on broadband including framework for cost reductions in Energy sector

<http://www.broadbandillinois.org/news/category/14>

3.NSF US Ignite Smart and Connected Communities and advanced application university-developer partnerships

<https://www.us-ignite.org/>

4. NSF Smart and Connected Communities 2017 grants https://www.nsf.gov/news/news_summ.jsp?cntn_id=243312

and 2018 rfp for interdisciplinary research, including research partnerships with public engagement community districts

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505364

5. Illinois Department of Innovation and Technology Smarter State Local initiatives

<https://www2.illinois.gov/sites/doi/Strategy/Pages/SmarterIllinois.aspx>

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