

## **ADMINISTRATION AND HUMAN SERVICES**

### **STANDING COMMITTEE MINUTES**

**Monday, February 13, 2017**

The meeting of the Public Works and Safety Standing Committee was held on Monday, February 13, 2017, at 5:00 p.m., in the 5th Floor Conference Room of the Municipal Office Building. The following members were present: Commissioner Bynum, Chairman; Commissioners Johnson, Markley, and Philbrook. Commissioner Kane and BPU Board Member, Jeff Bryant, were absent. The following officials were also in attendance: Gordon Criswell, Joe Connor and Melissa Mundt, Assistant County Administrators; Brent Thompson, County Surveyor/Public Works; Rob Richardson, Director of Planning; Matt May, Emergency Management Director; Alan Howze, Chief Knowledge Officer; Misty Brown, Deputy Chief Counsel; and Doug Bailey, Sergeant-At-Arms.

**Chairman Markley** called the meeting to order. Roll call was taken and all members were present as shown above.

**Chairman Markley** said revisions have been made to tonight's agenda. A blue sheet was distributed last Thursday adding Item No. 2, which we're going to handle as item No. 1 so that Mr. Richardson can get down to his planning and zoning meeting and that is regarding procedures for transcribing Planning Commission minutes.

Approval of standing committee minutes for November 28, 2016. **On motion of Commissioner Bynum, seconded by Commissioner Johnson, the minutes were approved.** Motion carried unanimously.

Committee Agenda:

**Item No. 2 – 17967... REQUEST: PROCEDURES FOR TRANSCRIBING PLANNING COMMISSION MINUTES**

**Synopsis:** Request approval of the procedures for transcribing minutes for the Board of Zoning Appeals, City Planning Commission and KCK Landmarks Commission, submitted by Rob Richardson, Director of Planning.

**Rob Richardson, Director of Planning,** said last month we were here and we proposed a new system for a transcription method for Planning Commission minutes. We've added some detail as you requested last month. I think it's fairly self-explanatory how those will be done. If you all approve this, we'll begin with tonight's Planning Commission meeting using this method of transcription. We want to practice this month on a light agenda because we think next month will be very heavy. If you have any questions on that, I'd be happy to answer those, otherwise I'd ask your approval.

**Commission Johnson** said this is just for BOZA, City Planning and Landmarks Commission?

**Mr. Richardson** said correct.

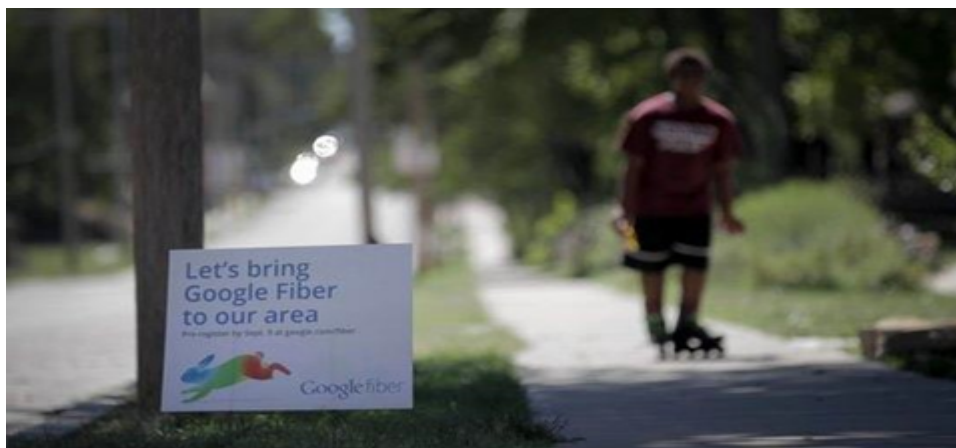
**Acton:** **Commissioner Philbrook made a motion, seconded by Commissioner Bynum, to approve.** Roll call was taken and there were four "Ayes," Philbrook, Johnson, Bynum, Markley.

#### **Item No. 1 – 17961... PRESENTATION: KC DIGITAL DRIVE**

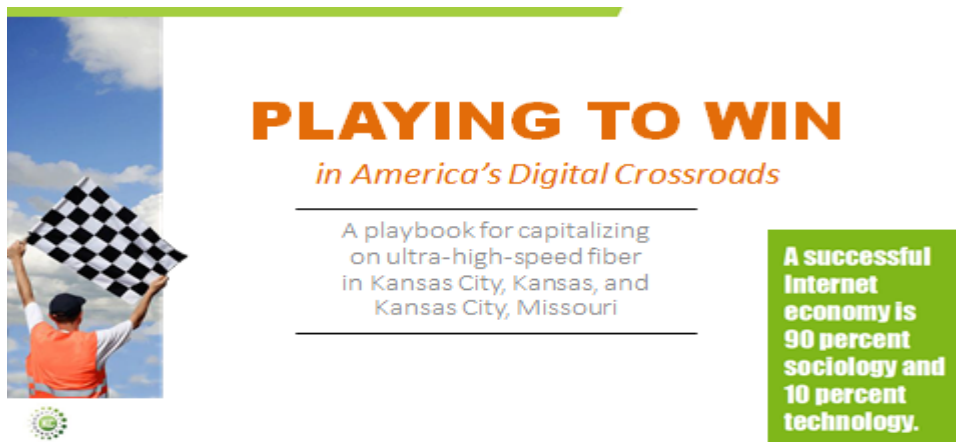
**Synopsis:** Update presented by Aaron Deacon, Executive Director of KC Digital Drive, on the activities and objectives of KC Digital Drive and how they are working with and supporting Unified Government priorities, submitted by Alan Howze, Chief Knowledge Officer.

**Alan Howze, Chief Knowledge Officer,** said this evening we wanted to have a presentation from Aaron Deacon who's the Executive Director of KC Digital Drive. Digital Drive has been a long time partner with the Unified Government in a number of different areas that you'll hear more about tonight including expanding Digital access and maximizing economic development opportunities for the community. As part of our innovation efforts we wanted to bring him in and let him give you an update on activities that Digital Drive was doing and how they are impacting the community.

**Aarron Deacon, KC Digital Drive,** said I'm going to recap about five years of activity in around 20 minutes here so feel free to stop and ask me questions or follow up later. I thought a little bit about whether to kind of focus broadly on the scope our work or to target—there are a handful of things that we're working on within Wyandotte County right now and I'm not going to go into a lot of detail on those. I will mention some of them but can come back and talk with those. I want to make sure to give a sort of (inaudible) because we're overdue for an update.



As you may recall or you may not, Google Fiber came here five years ago. There was a lot of questions about what that means for the city. Mayor James and Mayor Reardon at the time appointed the Mayor's Advice and Innovations Team innovations team to take a look at what we ought to do in order to maximize that private sector investment.



This playbook came out in 2012, *Playing To Win an America's Digital Crossroads* and target four key areas for the region to be thinking about and recommended to setting up a digital

leadership network, which was KC Digital Drive to take the playbook to implement the activities there in and to keep the vision alive for metropolitan internet ecosystem.

Even though we started from this kind of technology standpoint, the operating principal and really the driving force between our work was that all of this technology change management is really about the people, about the social system, about the communities and how people interact. That has really driving our work over the last five years.

### KCDD: Building an Ecosystem

- Playbook was written before Google Fiber
- 10% technology, 90% sociology
- Addresses problems of:
  - Amazing but underutilized infrastructure
  - Unclear ROI (chicken & egg)
  - Resources not being shared
  - Who's doing what?
- Targeted focus areas: Health, Gov, Edu, etc



This Ecosystem model was part of the playbook and it sort of looks at how we span and how the innovation Ecosystem more generally spans across all these different kinds of areas. Google Fiber was an infrastructure project obviously but it has applications that run on top of it. You need to educate people how to use these different applications and the new technology infrastructure and the hardware. You need collective resources and organizations that all work together to really come up with some acts of impacts. It's not the clearest thing to describe so forgive me in advance. If I don't do a great job and you have questions at the end, we will try to make this kind of make sense in terms of looking at the broad scope of our work.

## Mission: Make Kansas City a Digital Leader

*We have gigabit-speed technology in place. Now it's time to secure our economy's future and improve the quality of life for all Kansas Citizens by...*



• Closing the Digital Divide



• Driving Digital Innovation



• Building Kansas City's Reputation

We took that playbook and over the first couple of years of activity trying to sort through and execute on the plays and really refine our organizational mission, as Alan kind of eluded to, we realized that across all of the areas of the playbook there was sort of this underlining theme of economic and community development. Even though we are a 501c3, we're not a 501c4 or 501c6, were not strictly speaking an economic development organization. We really have seen that sort of permeates through a lot of the impact of the work that we try do. Our mission as we stand now is to make Kansas City a digital leader. That means Kansas City, the entire region, and we have three main strategies that we work on to do that.

One is to bridge the Digital Divide and to make sure that technology infrastructure and technology change has an equitable impact across our communities. There is part of that, that is actually making sure that internet goes everywhere, but it also means being sensitive to the diverse communities that make up the whole Kansas City community in terms of how we think about technology change.

The second is really on driving digital innovation. We knew that we had a unique asset here. We have a lot of unique assets here and we really want to capitalize on them and adopt a culture of doing. This fits in with the make Kansas City America's most entrepreneurial city initiative, but we're not necessarily concerned about business creation, although our activities do lead to some businesses being created. It's really about empowering the people who are working to make the community better, to take on active projects, experiment with new things, find out what works and what doesn't work and help to scale those successes.

The third thing that we work on is building Kansas City's reputation. That is Kansas City as a whole metro area; we do a lot of work both here in Kansas City bringing people in, but also traveling, talking, speaking at conferences and participating in a whole lot of different national networks that are looking at smart cities and digital cities that has cities incorporate technology

and really making sure that we raise the profile of Kansas City as the metro area in those conversations. We can export the things that we create here. The projects that we do, the lessons that we learn when it comes to digital inclusion, but it also allows us to bring back into the metro area thought leaders and ideas from all around the world.

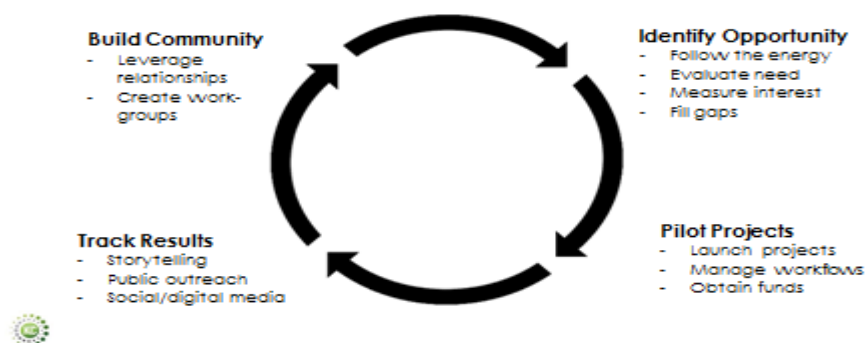
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### 90% qualified neighborhoods



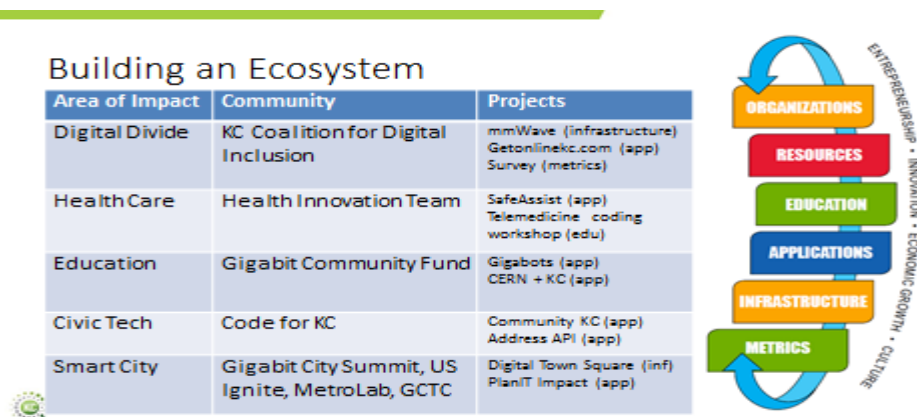
We started with Digital Divide and that was really kind of how I personally got involved in this area. We saw that map on the left and this was kind of around the middle of the MBIT process and we knew that we were struggling to get neighborhoods connected to google. This is sort of old history, but I like going back to this because partly it sort of established our credibility in terms of being able to do something. It's also a success story that gets forgotten, I think, a lot of times. There was a national narrative about Google and Digital Divide, but it made it worse and they weren't quite doing things right. There were certainly a lot of missteps, but the fact of the matter was through hard work and community effort and really mobilizing and network of community volunteers, we were able make it so that over 95% of the metro area that was in googles potential footprint actually qualified and has access to service. That's a pretty strong case and the amount of green on that map in Kansas City, Ks, in particular is something to be quite proud of.

## Our approach



We took that model which was really a community organizing model and have applied it to a lot of other projects. This is sort of a crude diagram that explains what we do. The first part is really around building community operating in a lot of different communities, around a lot of different kinds of topics, whether it's healthcare or education, civic government Smart City. There are communities that practice in all of these areas. We work to build those up and really focus them on emerging technology so we can identify opportunities where we have projects that we want to advertise and that we can try to make successful. Through that community building work we look to identify opportunities and then really kind of our bread and butter is launching projects so we want projects to happen, we want projects to be successful. We're okay if projects fail. We want to encourage this culture innovation all throughout the city and then we want to track results.

This is where we're the weakest. It's a lot of work to track all of the results across the Ecosystem. There are a lot of questions about okay how do you know the impact? A lot of the impacts are downstream. If you're talking about one-to-one iPad initiatives and you really care about whether kids are getting jobs when they graduate from high school or when they graduate from college. Those are hard things to tie together. There's a lot of work but we are building up a compelling story. I'd like to think one of the sort of values we bring as an organization is having that institutional memory to be able to trace back and look over a lot of initiatives that have kind of come and gone and continue to tell that story.



Some examples of how this plays out. Again, looking at this Ecosystem model, here are five different areas of impact that we work in. In each of those there are convening exercises that we do. Kansas City Coalition for Digital Inclusion was a meeting group that was started at the Kansas City Public Library. Eventually we, as an organization, were the founding home of that and helped to write a mission statement and a vision statement and bring some capacity to actually being an organization. Then within that some within the coalition as an entity and other things that we've adopted. We've seen opportunities for specific project work. There's several partners that we've found that wanted to donate some millimeter wave wireless fiber like backhaul equipment to be able to provide internet services in poor neighborhoods. Some of this gets technical and it's kind of mumbo jumbo so I apologize for that. There are people out there that we meet in our work that, for example, have spectrum that they need to use in Kansas City so they can maintain their spectrum license. We're able to use that in some cases to help bring internet services to neighborhood where they wouldn't otherwise have it.

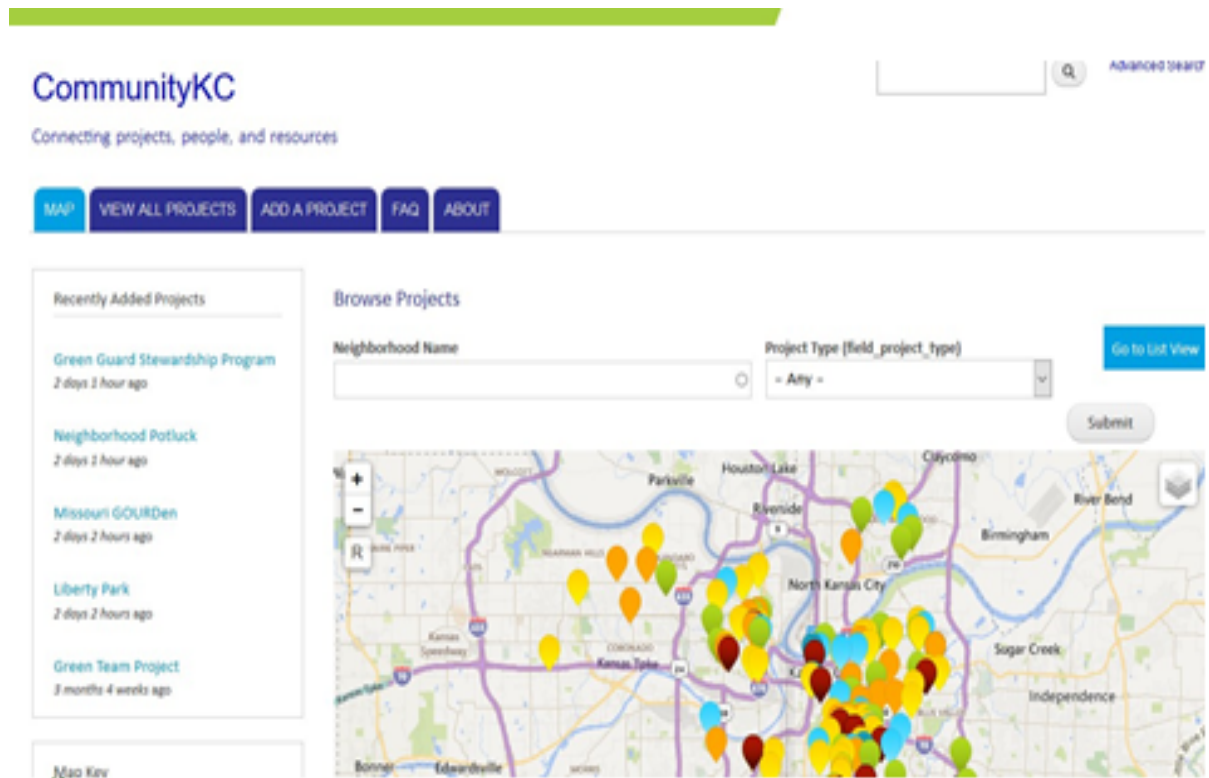
There's an app that we're working on called Getonlinekc.com. This is actually through the code for KC Brigade which you see down there a little bit lower which helps to identify resources. We've done survey work and research work so we've got, and this is actually my professional background, is as a researcher. The Kauffman Foundation commissioned us to do a large scale study on Digital Divide resources and look at statistics across a variety of areas, to paint a picture of the Digital Divide in Kansas City and identify gaps.

Within health care we have health innovation teams. That's our monthly meeting group of health care stakeholders. SafeAssist is an application that we're currently look for grant funding for from the Healthcare Foundation to help police and first responders deal with mental health situations better than they otherwise would be and not deal with them as criminal situations. We're planning a telemedicine coding workshop for the first half of April. There

were a bunch of new telemedicine codes that came on line that private practice doctors could use to effectively deliver more services. It's kind of a complex model and this came up in one of our healthcare meetings, a doctor who was using it described this. Some other people said hey that's a really interesting idea, is anybody else doing this? He said I don't think so, well let's have a workshop. It's taken a little bit of time to put it together, but it's an example of how an idea surfaces through the community building work and then we were able to go out and get a grant from the REACH Healthcare Foundation to put this into practice. In education we've partnered with Mozilla and brought the Gigabit Community Fund to town.

We funded about 20 projects; I think something like \$200,000 to \$250,000. \$15,000 to \$20,000 on average to each of those projects that are actual in classroom, for the most part pilots using gigabit technology in an educational workforce development context. Code for KC is a weekly hack night. We have about 50 meet ups a year with 15 to 20 people who volunteer their time to build out applications and software programs. We do quite a bit of work in the Smart City phase and so those first four are really more local focus but in the Smart City space this is really about taking the Kansas City brand and making it national.

I will say, not just because I'm here in front of you all tonight, a large part of what I spend my time doing is making sure that it's not just KCMO and the Cisco, Sprint project that we mean when we talk about Smart City in Kansas City because there are a lot of other things that we're doing as a region. Even going back to Google or going back to some of the lighting projects, going back to the Smart Water and Smart Meter projects that BPU is doing that fit within the Smart City context and we need to do a good job of expanding that story.

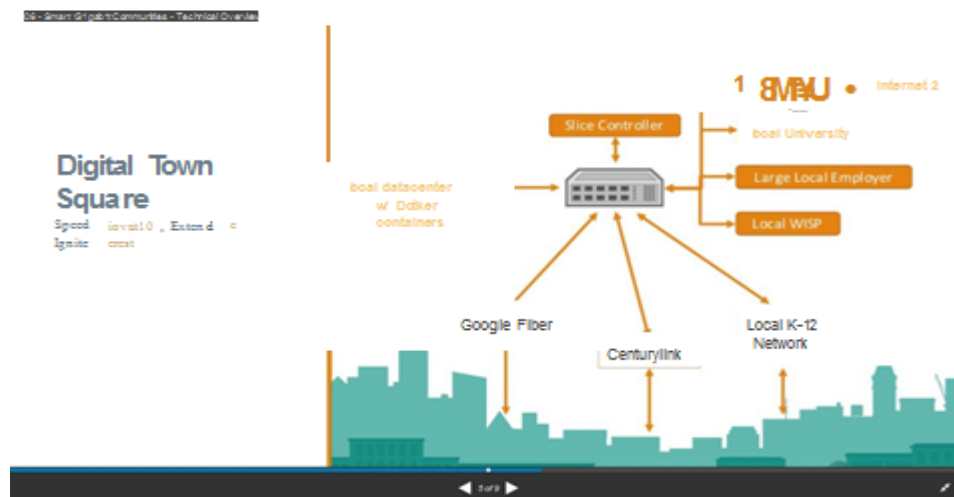


Just a couple of sights as a frame of reference, this is one of our code for KC projects, CommunityKC. This is a map of good things that it's done for the Community Capitol Fund. They wanted a map so that they have all these \$5,000 to \$20,000 community grants that they give out. They found that people would give similar grants and they wouldn't necessarily know who had done a similar project. We've help build a map for them to locate those.



This is one of our education projects. It's a partnership with the folks that run the Hadron Collider in Geneva, Switzerland. It's a volunteer computing projects so where they can process

large datasets and they were interested in seeing what that looks like over a gigabit network in another part of the world.



The Digital Town Square, again this is a lot of tech mumbo jumbo, but essentially the idea is that we've got a lot of gigabit networks in Kansas City now. We have Google, AT&T we have liNKCity in North Kansas City, we have Consolidated Communications and they all ought to be able to talk to each other. Part of the advantage of having Gigabit Fiber Networks is that you get high bandwidth and low latency between end users. We're working on a project through the US Ignite Grant to connect those locally and be able to deliver new kinds of applications and Smart City applications locally.

## 50+ projects right now

- Smart City
  - US Ignite
  - Global City Teams Challenge
  - MetroLab
  - IEEE
  - Gigabit City Summit
  - Digital Town Square
- Digital Inclusion
  - Digital You!
  - Connecting Neighbors
  - Computers at RS
- Health care
  - Safety net whitepaper
  - Mental health whitepaper
- Telemedicine coding
- Eldercare pilot
- SafeAssist
- Smart Healthy Campus
- Code for KC
  - Neighborhood dashboard
  - Vacant2Vibrant
  - Address API
  - I Got Mine
  - Street Medicine
  - KC Speed Test
  - Valuing Green Spaces
  - Tow Lot
  - Boards/Commissions
  - Vacant lots
- The Arts
  - Capture
  - Makerspace Roundtable
  - City Arts Festival
- Entrepreneurship
  - 1 Billion Bits
  - Gigabit App Discovery
  - Gigabit Workday
- Education
  - Pennez
  - SenseED
  - Gigabots
  - Black History VR field trips
  - CERN + KC Challenge



We have a lot of projects at any given time that we're running. I've got a list and I should have probably brought the printout because there is a description that I try to keep up to date every couple of weeks and I'd be happy to distribute that. These are all things that we have some kind of project management or stakeholder role in or contributing role in.

## Convening

- KC Coalition for Digital Inclusion
  - 100+ individuals, 30+ organizations, 50+ meetings, 2 summits
- Health Innovation Team
  - 40+ monthly meetings, 7 community forums, 50+ organizations
- Code for KC
  - 775 meetup members, 50 hack nights/year, 10 apps in the pipeline
- US Ignite
  - 30 Steering Committee members, 5 hackathons, 300+ attendees, at least 2 businesses
- PAWR
  - 72 people across 3 workgroups



Just to give an overview from our convening work, I won't read through all these numbers but we have a lot of meetings and there are a lot of people. There are a lot of volunteers, to take care of that many projects I've got a staff slide leader. We don't have much staff but we pretty much operate on a network model. We go out and engage the community and try to find people that are interested in the kinds of work that we do. There are a lot of them, there are a lot of people that want to give back and want to help make their community a better place. We help to try to empower them and drive that forward.

We do other things that are more high level work group oriented so US Ignite which is the grant that is helping to fund that Digital Town Square and do some community planning and kind of hackathons, sort of hack development work around applications to put on that. We've actually got a formal steering committee with 30 members, meets every couple months. The power project, this is kind of interesting one. The National Science Foundation is going to put out an RFP next month for city scale wireless kind of 5G testbeds. These will each be \$20M grants. I been working with the FCC and NSF on this project for a couple of years in anticipation of this RFP. We got a work group together last fall just to start preparing a little bit early, we'll see how that goes. We have a work group right now working on sort of what the research agenda is going to be that that testbed might support, what the infrastructure footprint might look like here in Kansas City and what a governance process maybe for both private industry and academic

researchers to use this network. There will be more on that and Alan has been part of that work group as we await that RFP coming out next month.

I want to talk about some of the higher level, national or global initiatives. This is where Kansas City really has been on the world stage in a way that I don't think it was five years ago. Through almost all these initiatives, with one exception which I will point out, it's been interesting to see how that gets translated. There are some that were on the map that said Kansas City Kansas/Kansas City Missouri. There are some where we've started coaching people to just say Greater Kansas City. There are a couple where Kansas City Missouri has been like well no that's us not them. How we navigate this, to me it doesn't matter and to really most of the people in the room they don't care which city the project is from or who it's from, if it's Alan there or if it's Bob Bennet there. It's nice because we get both of them. For me, to be able to have multiple city governments to rely on really expands our reach in some sense as Kansas City and our ability to participate in these networks. In order to do that we need a commitment to innovation from the different city governments and partners in the region. We've seen that and especially I am very grateful that Alan's been hired because it's expanded your capacity to do that quite a bit.



US Ignite is a National Science Foundation project that supports the Digital Town Square that I was mentioning. It was about a \$6M grant spread across 15 or 20 cities. We were among the first 15 who were grant funded so we've been able to get some direct grant funding money. I think new cities are now buying in at \$300,000 a year. That's been a nice community to be a part of and Joe was down in Austin last year to launch that project.



The Gigabit City Summit that's something we've done here. We are getting ready now for our third one of these. The first one was in January 2015; the second one was last May. We grew from about 250 to 350 participants last year, I think 50 to 75 cities and we're looking to continue to grow this year. The idea is really how to take next generation infrastructure and turn it into community impact and building the community of practice among other cities who are going through that same process.



The IEEE Smart City initiative, this one's a KCMO one, although I will say we had to choose five areas as part of our application that we wanted to focus on. One of them was regionalism because even though KCMO wants it to say KCMO on the website; they understand that it's important that when we think about what it means to be a Smart City and how we engage in this movement, a lot of that has to do with how we share resources and the fact that these technology networks and our data platforms are geography agnostic in some way.



Metro Lab Network is a partnership between cities and universities. This was launched in 2015 as part of the White House Smart Cities Initiative and it is a series of university and city partnerships that look for project opportunities. Basically the idea is researchers increasingly want real world testbeds to test their ideas in and city governments are strapped for the intellectual resources that academic researchers bring to bear on their problems. This came out of Carnegie Mellon in Pittsburgh and was expanded through a big McCarthy Foundation Grant. We were not in the initial cohort of cities, but we were able to join shortly afterwards in one of the few regional entries into this network in partnership with KU, UMKC, KCK and KCMO.



The Global City Teams Challenge is full of a lot of weird words. We have a super action cluster around health care that Alan is leading and that we are assisting with, looking at what smart and connected health opportunities are. The whole idea of the Global City Teams Challenge is looking at sort of the intersection between the digital and physical worlds. A Cyber physical

systems is what they call them within nist and its sort of an IOT, Internet of Things, in a connected area. We've got an action cluster, looking at Mayor Hollands Healthy Campus and thinking how do we use technology within that footprint, how do we think about smart health and what kind of opportunities are there.

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## Our Team



Aaron Deacon,  
Managing Director



Paul Barham,  
Code for KC



John Fitzpatrick,  
Health Innovation Coordinator



Dale Fox,  
Partnership Director

Monica Arredondo, Project Manager  
Katherine Hambrick, Project Coordinator  
Katy Schamberger, Writer  
Sarah Eggers, Social Media  
And many many more...



I mentioned our team briefly, we really have one full time staff person and that's me. Paul Barham leads our Code for KC Brigade. He probably volunteers 20 to 25 hours a week. John Fitzpatrick is our healthcare consultant who is partially grant funded and partially volunteer. Dale Fox has been volunteering with us from the beginning. He's an ex-Time Warner Executive who brings a lot of industry experience. Though our grants and our other funding mechanisms we bring in a lot of other kind of regular contributors. I'd be remised not to mention Jason Harper who was our Communications Director for a year and half until he went back to the private sector. Really we have probably 300 or 400 volunteers who intersect a lot of these different projects and different places and take real ownership over them.

## Funding

- \$200k initial investment by KCK and KCMO, through MARC (2012-2014) --  
\$50k per city, per year
  - ~\$1M total invested directly into KCDD since 2012
  - Additional \$1M in support direct to project partners
- Additional revenue from grants, donations, and earned income
- KCMO resumed \$50k annual commitment in 2016
- Target budget \$450k yearly (government, corporate, philanthropic)



We were started by KCK and KCMO jointly. They each committed after the playbook was released \$50,000 a year for two years. It's a \$200,000 initial investment which really covered our work in 2012, 2013 and a little bit of 2014. From that we've garnered over a million dollars or maybe just under a million dollars of investment directly to the organization in terms of support and project support and grants and corporate funding and earn revenue. Along with an additional roughly a million to support in direct funding to other projects. The Mozilla project alone was probably \$250,000 to projects and another \$250,000 to staff and there have been other sources that we've helped some of the projects that we work in funding that goes to them. As I say, those are some foundation grants, corporate donations and sponsorships, personal donations and some earned income for programming that we do.

KCMO resumed its annual commitment last year and I've asked Alan about KCK, but we're kind of waiting for him to come onboard so that may be an ask that comes in the future. I do think that it's appropriate in our kind of model to our vision is to have public sector, private sector and the philanthropic sector all be able to come together and support the work that we do so that it is truly a community project.

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## Timeline

2011-2012 Community-based planning, organic growth, MBIT, playbook  
 2012-2013 Establish a brand, identity and track record working with MARC  
 2013-2014 Create a stand-alone 501c3 non-profit  
 2014-2015 Articulate strategy, programs and brand of the organization  
 2015-2016 Replicate projects, and grow sustainability to prove the model  
 2016-2017 Refine organizational structure and continue growth



We kind of like to see that; a third, a third, a third; but the other thing that we're doing is realigning our board right now so the other reason for kind of waiting for Alan to come is so that he can be on our board. Organizationally, we're really founded by Mike Burke and Ray Daniels who chaired the MBIT Team and myself and have been waiting first for Kansas City Missouri to get a Chief Innovation Officer for you guys to have a position because we think it's important for there to be a structural tie back to the cities. When Bob came on board we worked on a contract. We signed a contract with KCMO last year and we'll bring Bob and Alan and two other members from private sector onto the board, early this year. This gives a kind of brief timeline of how we started and what we've been doing with ourselves over the last five years.

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## New Civic Capacity

- Regional, to compete in a global economy
- Network-based, nimble, opportunistic
- Top down + bottom up
- Technology change management
- Ecosystem model



Ultimately we think this kind of organization represents a new kind of civic capacity. It's been interesting as we've started to develop a peer network of other sort of non-profit or civic organizations in other cities who have occupied a similar place. Have this sort of entrepreneurial mindset, but aren't entrepreneurial organizations per se because that's sort of a self-contained

Ecosystem that's really focused on helping entrepreneur's and businesses with this idea that there is someplace that is sort of a mix of bottom up community work, along with top down sort of mayor and city work that you got this sort of innovation mindset that gets applied to the public sector or to sectors like healthcare or education where you've got a lot of really creative smart people who are doing interesting work but aren't necessarily the right fit for the entrepreneurship business creation mindset. It's a model around technology change management and thinking about how you maximize—**Commissioner Philbrook** asked what did you just say. When you hit the entrepreneurial part I'm like, wait a minute, I think I just lost something. I just skipped a beat somewhere in there so maybe I glazed over, I'm not sure. **Mr. Deacon** said it's interesting; this has become really clear talking to the Kauffman Foundation. It's a foundation of entrepreneurship and has been doing a lot of work on entrepreneurial Ecosystem. Usually when people say that they mean we want to help entrepreneurs be successful. We want to have new businesses get started and we want to help those businesses make money and be successful. In order to do that they need to go through a whole process. They identify a problem in the market, they maybe have some technology or maybe not, something that solves that problem and then figure out how to kind of take it to market.

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#### Big Opportunities for 2017+

- PAWR
- Smart City Overlay on Healthy Campus
- Smart City Works Accelerator



We do a sort of similar thing but our success metric isn't whether a business gets created. Even though sometimes they do, but to look and the Healthy Campus, for example; we're not going to start a Healthy Campus business or a Digital Health business that goes and starts a pop up shop on Healthy Campus. We would like to see maybe it's air quality sensors, or a telemedicine kiosk, or new thinking in population health that is implemented in that kind of context. There are a lot of stakeholders, people who work at the hospitals and the healthcare systems and the non-profits who also want to see that and are also interested in it, sort of like you entrepreneur

communities are. It's a similar process but sort of different metrics. **Commissioner Philbrook** said thank you for clearing that up for me.

**Mr. Deacon** said the big things that we're working on this year, in addition to all the little things, but these I say big because all three of them probably have half-million-dollar plus budget line attached to them if they actually work. One is the Power project which is that wireless testbeds which would be a potential \$20M grant for the Kansas City metro. Smart City overlay as I told Alan when I was describing this project to him I knew there was a \$30M Healthy Campus project out there. I thought if there was a \$31M or \$32M dollar project for a Smart Healthy Campus, that would be worth exploring.

We're slowly making progress towards that. I've got a meeting with the building contractor on that project later this week and a couple consultants that have been helping to flush that out. Smart City Works Accelerator, this is a group that is launching their first accelerator cohort. This is actually an entrepreneurship play proper where they bring in startup companies and try to help them succeed more quickly. **Commissioner Philbrook** said there's an accelerator group that meets out south over in Overland Park where they bring in a lot of groups and they meet once a month. **Mr. Deacon** said I'm not for sure if I'm familiar with that one. **Commissioner Philbrook** said that's alright, I'll find out for you.

**Mr. Deacon** said so this group is really interested in infrastructure startup. Their belief is that the people that make roads and bridges and buildings don't need a software accelerator model to help them grow and their launching their first cohort in Virginia. They will recruit 10 companies and they'll go out and be in Virginia. We would like them to recruit 10 companies and come here to Kansas City. We've been working with Black & Veatch and JE Dunn and Burns & McDonnell to try and build corporate support for that. It's slow and it may not happen, but they're all sort of we think this is interesting, but we don't want to write checks so we will see where that ends up.

**Commissioner Bynum** said on your page where you're talking about building an Ecosystem, could you just talk a little bit more about the SafeAssist application, is that the one that would help with CIT with law enforcement? **Mr. Deacon** said yes. **Commissioner Bynum** said tell us a little more about what that would do. **Mr. Deacon** said the idea behind that is that it's really caregiver driven rather than police driven. This was something that Mike Grigsby who used to

be the CIO in KCMO PD and John Fitzpatrick who our healthcare consultant was. He was talking to Mike and Mike was really frustrated because they kept responding to these mental health incidents with the 911 calls and really wanted to have more data on the calls but did not want to own the data and did not want the police to build up the database. He didn't want take on the liability of having to maintain that so the thought was if we can set something up and allow caregivers to enter it on their own and if we can maintain it, or find another third party to maintain that database over time, it would still be an open portal that police officers could access and potentially diffuse some situations.

We found that they've tried to do something like this in a few other cities, Seattle, Atlanta, and Houston have all worked on developing things like this. In conversations with the Healthcare Foundation learned that there were a couple of others similar attempts. There's United Way 211, there are handful of other things that are like this. John is working on a grant right now to the Healthcare Foundation to do some analysis of what has been done in other cities, what has been the experience here to date. We've got a prototype of this, this kind of half built and living on some volunteer's server someplace. We'd like to be able to move it along a little bit further.

**Commissioner Bynum** said the implications of being a Gigabit City, as we move forward with our body camera project; I know that we've talked a lot leading up to body cameras, one of the issues is the fiber connectivity. Do these two things kind of come together at that point? I know we're still going to continue toward having the body camera's, that's coming I think in our very near future? **Mr. Howze** said I would say directly no because the body camera network will be geographically contained to our boundaries, this is where the information would live. However, there is a potential of broader application when you think about things like traffic cameras or other sort of transmission of large video files that now the routing might be because from here to California and then back across the state line. It can travel thousands of miles instead of going directly across.

The idea of the Digital Town Square is that you create a local hub so that you significantly reduce sort of the latency and the distance that it's traveling and while it is moving sort of at the speed of light, fast, it is sort of noticeable when you start talking about some of these different applications. The effort around the Gigabit Cities is that they want to create this Digital Town Square and the example they use is playing music. So if I were playing music here

and you were across town in your studio playing music today, even though we're physically sort of close there would be a noticeable lag if you were trying to do it online because human ears picks that up at a very small frequency or difference. This sort of closes that gap in latency and opens up new opportunities for different applications that I don't think we have even thought of yet that could take advantage of that infrastructure.

**Mr. Deacon** said I guess I would generally add part of what we do and part of the conversation with Alan is how do we think about all the different networks and how do we maximize the assets. You've got a lot of fiber in the ground. BPU got fiber in the ground and you're going to put some more fiber in the ground, how do make sure that we think strategically about how this stuff works together. **Commissioner Philbrook** said does that mean you are going to work well with others? We only need to dig up our streets so many times, thank you, because we have to keep putting them back down again.

On the Digital Divide section where you talk about your projects and you talk about infrastructure, the mmWave. Did you guys do some work in a few of the housing projects? **Mr. Deacon** said that was Connecting for Good I think. We've worked with them. I know they wired up Juniper Gardens and we have stepped into provide some support on projects that they were involved with previously. **Commissioner Philbrook** asked do you guys use some dish relays to come into there. There's a, is it on Mill Street or 10<sup>th</sup> Street, I'm trying to remember a housing project that when you drive up you see that they don't have individual feeds to their internet. They pick it up on Wi-Fi, over the whole unit; at least it looks like that.

**Mr. Deacon** said the technology they use is called mesh Wi-Fi although that's starting to get blurry and the technology changed a lot so I've got engineers who know what they're doing that maybe say something a little bit different every six months. The idea, and I think Connected for Good is still doing this as well, there are these real basically wireless antennas that can act like a fiber link if you've got a clear line of sight that you can go from a data center downtown where you can get access to the backbone of the internet and if you don't have any trees or buildings in the way you can kind of shoot a beam. You just imagine an invisible piece of fiber that goes to another building. There are a lot of different ways to get that down into the houses and that actually part of the kind of experiment that we're working on with this in the neighborhood, do we need to actually go and drill holes in people's houses and put routers in which I think they're

doing. Then they have a lot of different paths through which you can travel to get back to (inaudible). **Commissioner Philbrook** said sorry to put you on the spot. I had noticed and had been told from some patients that they had this or they had that and that happened when Google came in. That's why I was asking about it. **Mr. Deacon** asked was it a good experience. **Commissioner Philbrook** said there's no complaining. **Mr. Deacon** said that's good. **Commissioner Philbrook** said only me because I have a Google thing sitting right outside my office, a nice connector that I can't connect to because I'm business. Other than that you have still ran me to the other side, there's nothing I can do.

You mentioned some stuff you might want to do in like not Smart City, but our area for our Healthy Campus and you have a list of that stuff I guess that you think that you'd like to add to that or some ideas. I'm sure you've told or talked with others higher up than us. **Mr. Deacon** said we're working on getting a good list. It's an interesting question because when we go to the technology people they say well, what's the problem that you're trying to solve. They have been conditioned to think about this as a meeting needs as well. People aren't lowest health in Kansas or whatever, it's pretty broad.

In this case when you talk to the building contractors they're not even really thinking about health as much as the kind of the real estate. We're just working on bridging that gap a little bit at a time from each side so that we've got enough, we're not to the point where we don't want to come in and recommend a bunch of technology solutions. There are a lot of things that people are doing in Smart Connected Health. What we want to do is create enough of a vision to say here's the kind of things that you could do is as you're building out the building plan, your real estate guy, think about these sorts of things. Maybe this will help you raise money, maybe it will be just something else that you can do to impact resident's, maybe it'll be something else that could impact the people who might work on the campus.

There are a lot of variables even in what Healthy Campus is. **Commissioner Philbrook** said what does that mean right? **Mr. Deacon** said yes, and who's the population that it's designed to serve. There's a lot of work to be done. At least my feeling is, Kansas City, Kansas has a lot of really good fiber infrastructure now. That can provide an attractive backbone to do the kind of thing that we're seeing being done in other cities around the country and we ought to explore it and because health is a mayoral priority and there's some energy around that, it seems like a good fit. **Commissioner Philbrook** said what I do appreciate is that you are talking to the people that you need to talk to about integrating some of those thoughts.

Chairman Markley said this item is for information only. Thank you for your presentation.

**Chairman Markley** adjourned the meeting at 5:56 p.m.

Adjourned

**mbb**