Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)

Submission Title: Status of the IWPC MoGIG (Mobile Multi Gigabit (MoGIG) Wireless Networks and Terminals) Working Group and industries move to Nanocells

Date Submitted: July 5 2012 Source: David Britz Company AT&T Labs Shannon Laboratories Address 180 Park Ave Florham Park, NJ 07932, USA Voice: 973 236 6913, FAX: 973 360 5877, E-Mail: dbritz@research.att.com

Re: general Contribution

Abstract: Discussion of the newly formed IWPC MoGIG working group who's focus is on the network and equipment aspects of small cell and nanocell millimeter Wave and THz based street level infrastructure. More so how this Industry working group may align its objectives and collaborations with the 802.15 THz IG to insure network and device standards comply with spectrum and 802.15 requirements

Purpose: Support material for 802.15 THz Interest Groups focus and activities

Notice: This document has been prepared to assist the IEEE P802.15. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

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About IWPC	Mission Statement						
Mission Statement							
► Why a Consortium?	We facilitate global knowledge-capital collaboration, delivering unfiltered real time insight into vital technology, market and ecosystem evolution. Our technology-neutral Community provides leadership to:						
► How do we do this?							
► History							
▶ Staff Bios	 Identify new markets, products & service opportunities 						
Advisory Panels	Illuminate potential supply chain gaps						
Value Propositions & Testimonials							
▶ FAQs	Network with first-hand knowledge experts						
Membership – Benefits and Services	for ALL things wireless.						
Request IWPC Membership Information	Our Mission is to organize very specific Workshops to meet the needs and interests of the industry, our members, and the Original Systems Specifiers (Carriers, Automakers, Gov't Agencies, etc). These Workshop topics are suggested by our Members and others in the industry.						
	In addition, we organize and run Working Groups to address those topics which need additional and ongoing industry collaboration to reach specific goals and conclusions. These Working Groups are proposed by our Members and/or the Original Systems Specifiers.						



ALL	IWPC Workshops IWPC Working Groups		
Date	Event	Location	
Jul 02 - Jul 06	2012 SGPP \$45-Converged Management	Belling, China	
Jul 08 - Jul 14	2012 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting	Chicago, IL ISA	
Jul 09 - Jul 13	3GPP \$A3#68	Bratislava, Slovakia	
Jul 09 - Jul 13	3GPP \$A2#92	Barcelona, Spain	
Jul 10 - Jul 11	4th Asia \$ymposium on Quality Electronic Design	Penang, Malaysia	
Jul 17	Working Group: Tower Top Electronics Reliability Description: TTER Working Group Conference Call Full Details For Members	Start Time: 1:00 PM Stop Time: 2:30 PM EDT (GMT -4 Hrs), USA	
Jul 17 - Jul 19	3GPP\$A3#46-LI	Quebec City, Quebec, Canac	
Jul 17 - Jul 20	Sth International Mult-Conference on Engineering and Technology Innovation	Orlando, FL USA	
Jul 18 - Jul 18	Hybrid \$mail Fuel Cells 2012	Boston, MA USA	
Jul 19 - Jul 20	Next Generation Batteries - 2012	Boston, MA USA	
Jul 22 - Jul 28 Jul 24 - Jul 29	The Twentieth Annual International Conference on COMPOSITES/NANO ENGINEERING (ICCE - 20) 2012	Beljing, China Honolulu, HA USA	
Jul 30 - Aug 03	IEEE ICVV\$ 2012 19th International Conference on Web Services 3GPP \$41#59	Chicago, IL USA	
Aug 05 - Aug 08	IEEE EMC 2012 International Eymposium on Electromagnetic Compatibility	Pittsburgh, PA USA	
Aug 06 - Aug 10	3GPPCT1#79, 3GPPCT3#70, 3GPPCT4#58	Chicago, IL USA	
Aug 11 - Aug 12	3GPP\$44#7-Joint \$Q / EV\$ \$WG	Chicago, IL USA	
Aug 12 - Aug 13	Broadband Traffic Management, Latin America	Rio de Janelor, Brazil	
Aug 13 - Aug 16	13th International Conference on Electronic Packaging Technology & High Density Packaging (ICEPT-HDP 2012)	Gulin, China	
Aug 13 - Aug 17	3GPP \$A4#70	Chicago, IL USA	
Aug 13 - Aug 17	3GPPRAN4#54, 3GPPRAN5#56, 3GPPRAN1#70, 3GPPRAN2#79, 3GPPRAN3#77	Qingdao, China	
Aug 13 - Aug 16	2012 International Conference on Electronic Packaging Technology	Guillin, China	
Aug 14 - May 17	Sviaz Expo Comm Moscow - 2012	Moscow, Russia	
Aug 18 - Aug 19	ICETC 2012 International Conference on Education Technology and Computer	Cape Town, South Africa	
Aug 19 - Aug 23	PIER \$ 2012 Progress In Electromagnetics Research Symposium	Moscow, Russia	
Aug 20 - Aug 23	3GPPCT6#65 3GPP \$45#84	Helsinki, Finland Berlin, Germany	
Aug 20 - Aug 24 Aug 21	Working Group: Tower Top Electronics Reliability Description: TTER Working Group Conference Call Full Details For Members	Start Time: 1:00 PM Stop Time: 2:30 PM EDT (GMT -4 Hrs), USA	
Aug 27 - Aug 31	3GPPGERAN#55	Vienna, Austria	
Aug 27 - Aug 31	Sth IV/CMC - International Wireless Communications and Mobile Computing	Cyprus,	
Aug 28 - Aug 31	ISVVCS 2012 - 5th International Symposium on VVIreless Communication Systems	Paris, France	
Aug 28 - Aug 28 Aug 28 - Aug 30	IVV\$ON 2012 - 2nd International Workshop on Self-Organizing Networks	Paris, France Vienna, Austria	
Aug 28 - Aug 30 Sep 03 - Sep 03	3GPPGERAN1#55, 3GPPGERAN2#55, 3GPPGERAN3new#55	vienna, Auszla USA	
Sep 03 - Sep 06	Labor Day 2012 IEEE 76th Vehicular Technology Conference: VTC2012-Fail	Québec City, Canada	
Sep 04 - Sep 07	3GPPRAN#57	Chicago, IL USA	
Sep 05 - Sep 07	3GPPCT#57	Chicago, IL USA	
Sep 09 - Sep 12	PIMRC 2012 - 23rd Annual International Symposium on Personal, Indoor and Mobile Radio Communications	Sydney, Australia	
Sep 09 - Sep 13	45th International Symposium on Microelectronics	San Diego, CA USA	
Sep 10 - Sep 12	3GPP \$A#57	Chicago, IL USA	
Sep 11 - Sep 12	WIFI World Summit	Barcelona, Spain	
Sep 12 - Sep 13	SDP Global Summit 2012	Rome, Italy	
Sep 17 - Sep 20	ESTC - 2012, 4th Electronics System Integration Technologies Conference	Amsterdam, The Netherlands	
Sep 17 - Sep 20	2012 IEEE International Conference on Ultra-Wideband	Syracuse, NY USA	
Sep 17 - Sep 20 Sep 17 - Sep 17	Asia Broadband Traffic Management	Singapore	
Sep 17 - Sep 20 Sep 17 - Sep 17 Sep 17 - Sep 19	Asia Broadband Traffic Management PMR Summit 2012	Singapore Barcelona, Spain	
Sep 17 - Sep 20 Sep 17 - Sep 17	Asia Broadband Traffic Management	Singapore	
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Sep 19 - Sep 21	Upcoming IWPC Workshop Very High Capacity Networks Fiexible Capacity for Stadiums, Public Venues, Nusic Festivalis and Campuses Hosted By: U.S. Cellular	Chicago, IL USA
	Tour Info: TBC	
Sep 19 - Sep 21	VVMNC 2012 - 5th Joint IFIP VVIreless and Mobile Networking Conference	Bratislava, Slovakla
Sep 21 - Sep 23	VVICOM 2012 - International Conference on VVIreless Communication, Networking and Mobile Computing	Shanghai, China
Sep 23 - Sep 28	37th IRMMVV-THz @ Wollongong - International Conference on Infrared, Terahertz and Millimeter Waves	Wollongong, Austrialia
Sep 23 - Sep 25	Telecoms CEM Congress Middle East 2012	Duabl, UAE
Sep 23 - Sep 27	2012 FTTH Conference & Expo	Dallas, TX USA
Sep 24 - Sep 27	Mobile Broadband World	London, United Kingdom
Sep 24 - Sep 27	3GPP \$A4-MB\$ \$VVG on I\$-DA\$H	Rennes, France
Sep 25 - Sep 28	3GPPRAN5#56-BIS	Seoul, Korea
Sep 25 - Sep 27 Sep 25 - Sep 27	HetNet: The Base Station Conference PCB West 2012	Bristol, United Kingdom Santa Clara, Ca USA
Sep 25 - Sep 27	2nd MBT User Conference	Tallinn, Estonia
Sep 25 - Sep 27	APNOM \$ 2012 - 14th Asias - Pacific Network Operations & Management Symposium	Seoul, Korea
Sep 26 - Sep 27	ICS\$C 2012 : International Conference on Satellite and Space Communications	Rome, Italy
Sep 27 - Sep 28	4th International EURASIP Worshop on RFID Technology	Torino, italy
Oct 01 - Oct 03	Packet Microwave & Backhaul Forum	London, United Kingdom
Oct 01 - Oct 04	2012 Wireless Infrastructure Show	Orlando, FL USA
Oct 02 - Oct 02	3GPPRAN5-ss vendors/Tf160#19	Sophia Antipolis, France
Oct 02 - Oct 04 Oct 03 - Oct 04	4th Annual CDN World Summit 2012	London, United Kingdom
Oct 03 - Oct 04 Oct 08 - Oct 08	Srd annual Self Organising Networks	Cannes, France
Oct 08 - Oct 10	Columbus Day Telecom Cloud Services Asia	Hong Kong
Oct 08 - Oct 12	3GPPRAN1#70-BIS	San Diego, CA USA
Oct 08 - Oct 12	3GPPRANI#70-DIS 3GPPRAN3#77-BIS	Lecce, Italy
Oct 08 - Oct 12	3GPPRAN2#79-BIS	Bratislave, Slovakla
Oct 08 - Oct 12	SGPPRAN2#15-DIS SGPPRAN4#54-BIS	Santa Rosa, CA USA
Oct 08 - Oct 12	3GPP 8A5#85	Kyoto, Japan
Oct 08 - Oct 12	3GPP \$42#93	Sofia, Bulgaria
Oct 09 - Oct 11	CTIA - Enterprise & Applications	San Diego, Ca USA
Oct 09 - Oct 10	Connected Home Americas 2012	Atlanta, Ga USA
Oct 10 - Oct 12	M2M Zone at CTIA Enterprise & Applications	San Diego, CA USA
Oct 10 - Oct 10	M2M Conference at CTIA	San Diego, CA USA
Oct 10 - Oct 13		
	Transport Network Strategies 2012	Amsterdam, The Netherlands
Oct 10 - Oct 12	Transport Network Strategies 2012 ATC/REV 2012 The international Conference on Advanced Technologies for Communications	
	ATC/REV 2012 The International Conference on Advanced Technologies for Communications	Amsterdam, The Netherlands
Oct 10 - Oct 12 Oct 11 - Oct 13 Oct 15 - Oct 17	ATC/REV 2013 The International Conference on Advanced Technologies for Communications HEALTHCOM 2013 - 14th International IEEE Conference on e-Health Networking, Application and Services Upcoming IWPC Workshop Next Generation Wireleas Infraatructurc Reliability for Macro & Small Cells Active Antenna, Remote Radio Hoads, Equipment Feemedy, Sol, PM, Installation Best Practices, Lighting Mgmt, Reliability Prediction, Cabele Construction, New Amplifers, Linearization Hosted By; AT&T Additional Info; (+TTER Working Group Findings)	Ansteidem, The Netherlands Hanol, Vietnem Beijing, Chine Atlanta, GA USA
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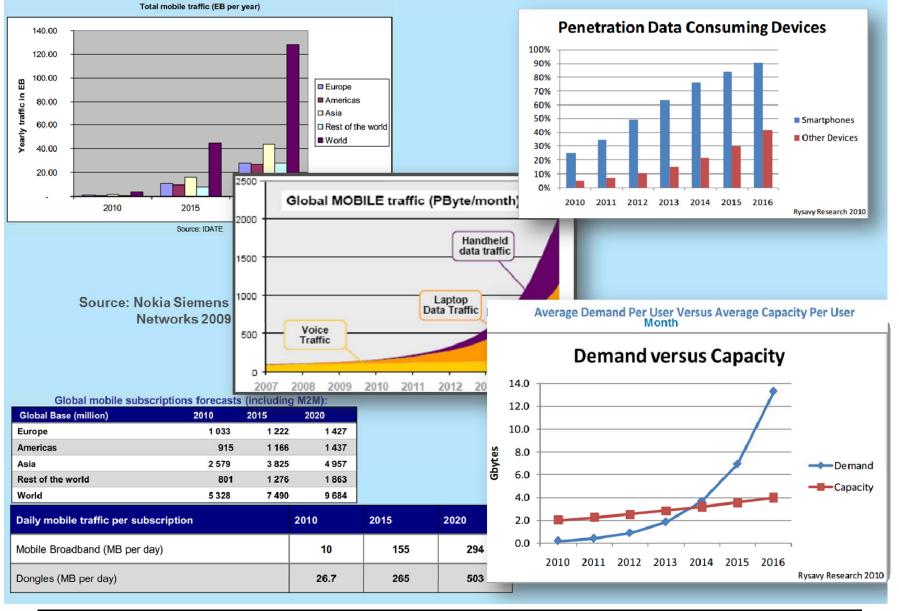
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	Upcoming IWPC Workshop		
Nov 05 - Nov 07	Tunable Components & Platform	Toronto, ON Canada	
Nov 07	Architectures for Smartphones Defining Requirements to Effectively implement Tunable RF Systems	Toronto, UN Canada	
	Hosted By: RIM		
Nov 05 - Nov 09	3GPP \$A3#69	Edinburgh, Scotland	
Nov 05 - Nov 08	12th International Conference on ITS Telecommunications (ITST 2012),	Talpel, Talwan	
Nov 06 - Nov 08	Global Broadband Traffic Management	London, United Kingdom	
Nov 06 - Nov 08	IT SF 2012 - Time and Sync In Telecoms	Nice, France	
Nov 06 - Nov 07	RichCommunication 2012	Berlin, Germany	
Nov 07 - Nov 09	Fifth International Conference on the Applications of Digital Information and Web Technologies (ICADIW/T 2012)	Nicosia, Cyprus	
Nov 07 - Nov 09	4th IEEE LATINCOM 2012 Latin-American Conference on Communications 2012	Cuenca, Ecudar	
	Upcoming IWPC Workshop		
Nov 08 - Nov 09	Innovative Technologies, Tools & Services to Drive Smartphone Performance & Customer	Toronto, ON Canada	
	Loyalty Hosted By: Telus		
Nov 08 - Nov 09	Municipal Fiber Networks - 2012	Danville, VA USA	
Nov 12 - Nov 14	Spectrum Management Service	Munich, Germany	
Nov 12 - Nov 14	Spectrum management service SGPP \$A4#71	Bratislave, Slovakla	
Nov 12 - Nov 16	3GPP SA4#71 3GPPRANS#57	Baltimore, ND USA	
Nov 12 - Nov 16	3GPPRAN4855, 3GPPRAN2#80, 3GPPRAN3#76, 3GPPRAN1#71, 3GPP8A2#94,3GPPCT3#71, 3GPP8A5#86, 3GPPCT4#59, 3GPPCT1#81	New Orleans, LA USA	
Nov 12 - Nov 16	3GPP \$A1#60	Edinburgh, Scotland	
Nov 12 - Nov 15	IPv6 Transition Test Event	Beljing, China	
Nov 13 - Nov 14	20th Annual Mobile/Roaming World Summit 2012	London, United Kingdom	
Nov 13 - Nov 16	3GPPCT6#67	New Orleans, LA USA	
Nov 14 - Nov 15	LTE North America - 2012	Dallas, TX USA	
Nov 14 - Nov 15	4G Latin America Conference & Expo	Bogota, Colombia	
Nov 14 - Nov 15	MVNOs Industry Summit U SA 2012	Dallas, TX USA	
Nov 19 - Nov 21	MVNO Networking Congress	Paris, France	
Nov 19 - Nov 30	3GPPGERAN#56	Prague, Czech Republic	
Nov 20 - Nov 21	MNO - Mobile Network Optimisation	Amsterdam, The Netherlands	
Nov 20 - Nov 23	3GPPGERAN1#56, 3GPPGERAN2#56	Prague, Czech	
Nov 22 - Nov 22	Thanksgiving Day	USA	
Nov 26 - Nov 28	NGN Delivery Solutions with Network Automation, Serivice Assurance & Optimissation 2012	London, United Kingdom	
Nov 27 - Nov 28	LTE - Backhaul Summit - 2012	Amsterdam City, Netherlands	
Nov 28 - Nov 29	CEM Global \$ummit	Madrid, Spain	
Dec 03 - Dec 07	IEEE - Globecom 2012	Anahelm, CA USA	
Dec 03 - Dec 06	LTE/EPC & Converged Mobile Backhaul	London, United Kingdom	
Dec 03 - Dec 05	Carrier Ethernet APAC 2012	hong Kong	
Dec 04 - Dec 07	3GPPRAN#58	Barcelona, Spain	
Dec 04 - Dec 05	Middle East Telco V/orid Summit	Dubal, UAE	
Dec 05 - Dec 07	3GPPCT#58	Barcelona, Spain	
Dec 05 - Dec 06	Small Cells In americas 2012	San diego, Ca USA	
Dec 05 - Dec 07	EPTC 2012 - 14th Electronics Packaging Technology Conference	Singapore	
Dec 06 - Dec 07	Annual Battery Safety 2012	Las Vegas, NV USA	
Dec 06 - Dec 08	APSCC 2012 - IEEE Asia-Pacific Services Computing Conference	Guillin, China	
Dec 10 - Dec 12	3GPP \$4#58	Barcelona, Spain	
Dec 10 - Dec 12	Control Room Communications 2012	Copenhagen, Denmark	
Dec 12 - Dec 14	IC SPC \$ 2012 - 6th International Conference on Signal Processing and Communication Systems	Gold Coast, Australia	
Dec 12 - Dec 13	IEEE IM SAA 2012 - 5th International Conference on Internet Multimedia Systems Architecture and Applications	Bangalore, India	
Dec 13 - Dec 15	India Telecom 2012 7th International Exhibition & Conference	New Delhi, India	
Dec 25 - Dec 25	Christmas Day	N/A	
Dec 31 - Dec 31	New Years Eve	N/A.	



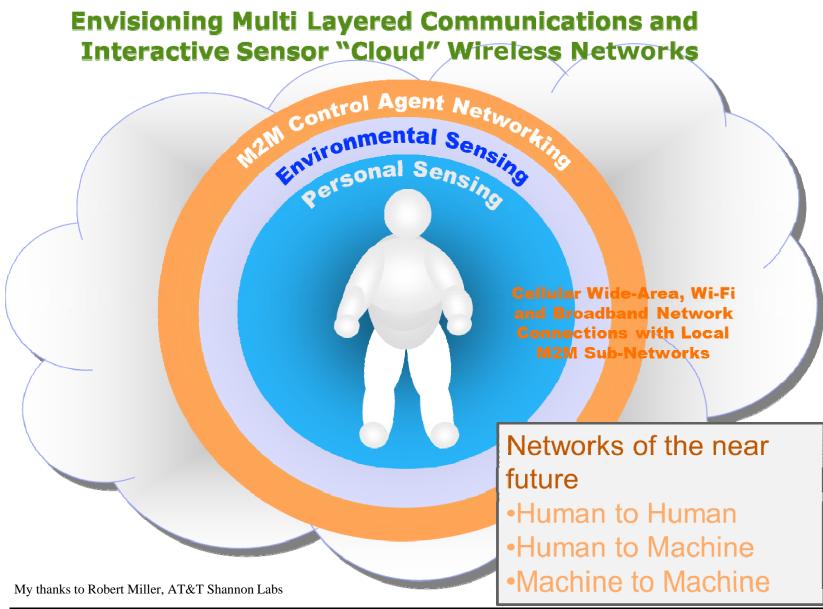
Conceive, design and demonstrate a multi-gigabit mobile broadband wireless nanocell as an extension beyond Small Cell and HetNet based Phy layer platforms. Nanocells will be capable of transporting, routing and delivering "big data" wirelessly at 10+Gbps

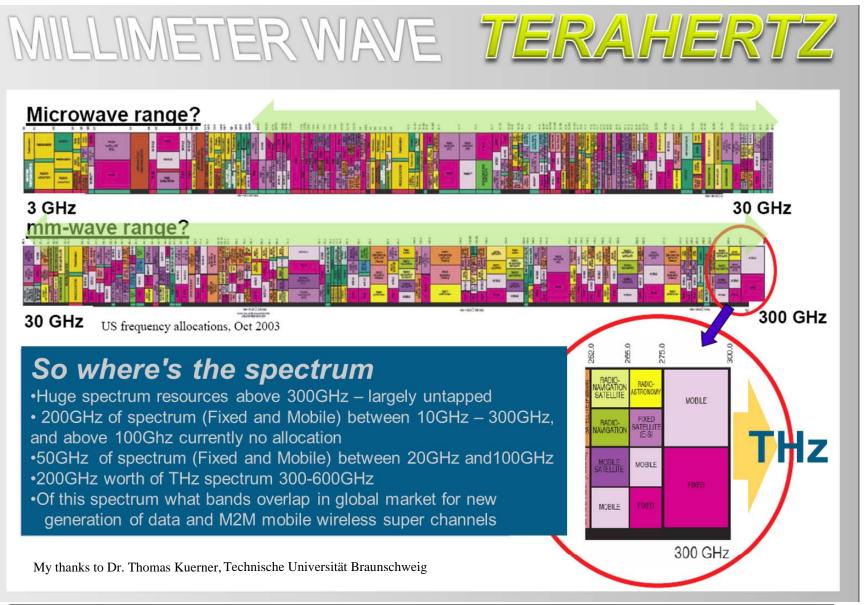
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Submission

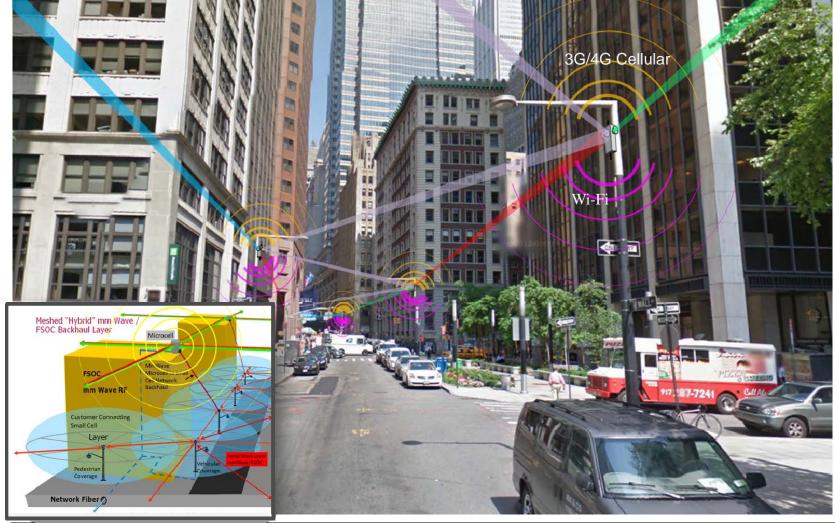
D. Britz, AT&T Shannon Labs





The First Steps ... Small Cell street level cell phone connectivity with 60+GHz backhaul Shaped Wireless LANs

July, 2012

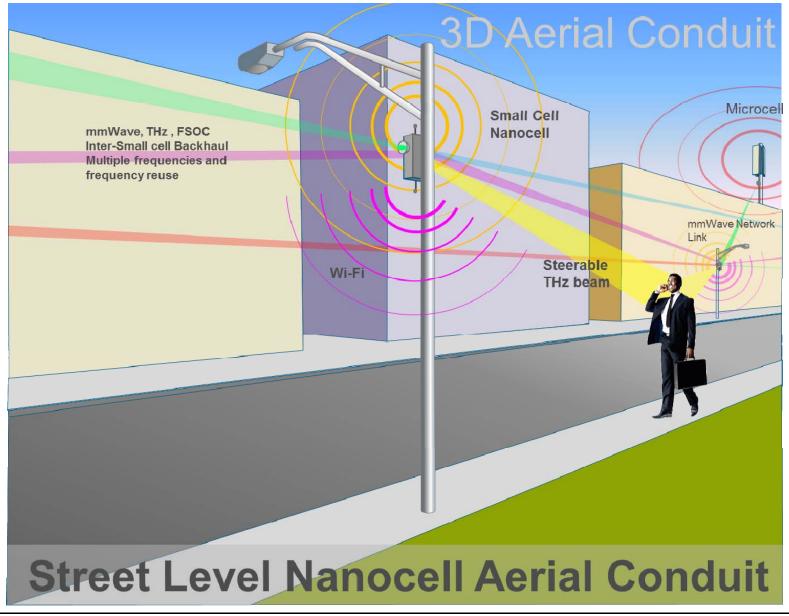


Submission

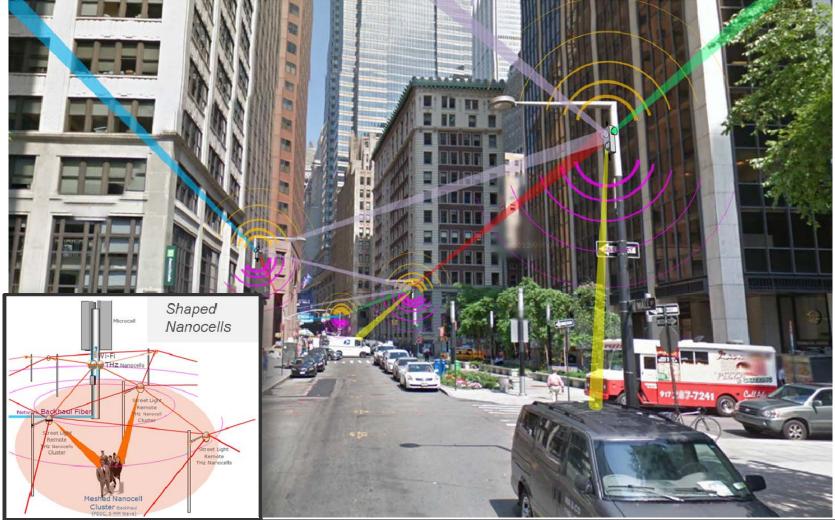
D. Britz, AT&T Shannon Labs



Doc.: IEEE 802.15-12-0321-00-0thz



The Solution... Nanocell street level smartdevice connectivity with 60-600GHz backhaul and directional beams



Submission

MoGIG Committee Focus

1. State of the Art Review Chair: Dr. Lothar Moeller, Alcatel Lucent

2. Use Cases Study Group

Chairs: Dave Britz, AT&T Dr. Thomas Kuerner, Technische Universität, Braunschweig

3. Network Architecture Options Study Group

Chairs: Dr. Philip Pietraski, InterDigital Communications Gregg Charlton, InterDigital Communications Dave Britz, AT&T

4. Channel Modeling Study Group

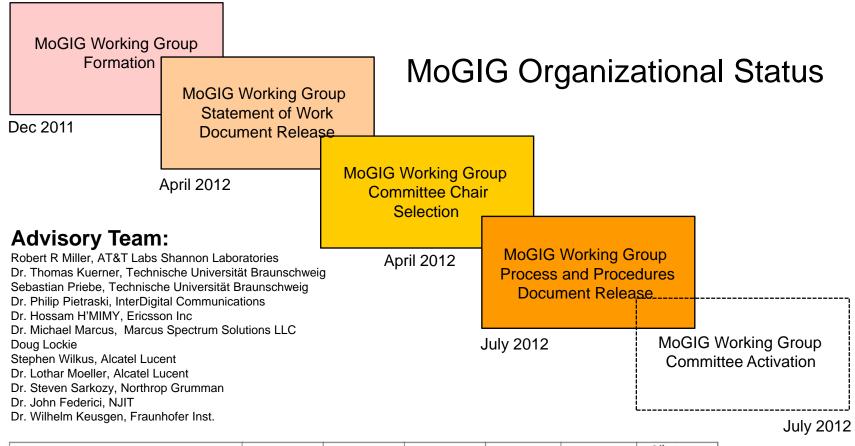
Chairs: Dr. Wilhelm Keusgen, Fraunhofer Inst. Michael Peter, Fraunhofer Inst.

5. Physical Layer Study Group

Chairs: Dr. Wilhelm Keusgen, Fraunhofer Inst. Sebastian Priebe, Technische Universität Braunschweig

- 6. Global Spectrum availability and harmonization Study Group Chair: Dave Britz, AT&T
- 7. RF Front End Technologies Antennas Study Group Need chair
- 8. RF Front End Technologies Transceivers Study Group Need chair
- 9. **RF Front End Technologies Semiconductors Study Group** Chair: Dr. Steven Sarkozy, Northrop Grumman
- **10.Demonstrator realization Study Group**

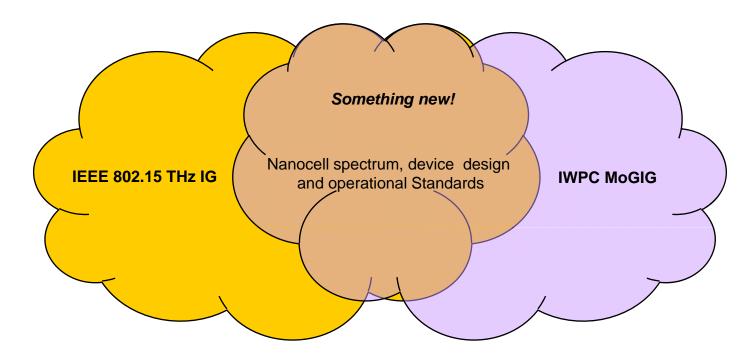
Chairs: Steve Wilkus, Alcatel Lucent Dr. John Federici, NJIT Dr. Steven Sarkozy, Northrop Grumman



Work package	1 st year	2 nd year	3 rd year	4 th year	5 th year	6 th year +beyond
1: White Paper	X					
2a: Phy, Mac		Х	Х			
2b: Spectrum allocation		Х	Х			
3: Infrastructure and architecture		Х	х	Х		
4a: Demonstrator		Х	Х	Х	Х	
4b: Field trial						Х

Inter-organizational collaboration?

Sharing of focus and technical expertize for a common goal



How do we do it, what are the questions we haven't asked???