

AGENDA	DISCUSSION	RECOMMENDATIONS/ACTION
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Hiring of the teams began in 2007. USTAR has funded research teams at the U of U and USU. These teams are led by 51 world-class faculty innovators who are at the forefront of their fields and eager to collaborate with industry to develop and commercialize new technologies. These highly talented and respected researchers have been recruited from top universities around the world including MIT and Harvard. ○ Core Facilities <ul style="list-style-type: none"> ▪ In collaboration with the Research Universities, USTAR invested in the construction of two state of the art research buildings to provide research space, core facilities, and specialized equipment that is available to researchers across the State and industry partners. ○ Outreach and Services <ul style="list-style-type: none"> ▪ The Technology Outreach Innovation Program (TOIP) is designed to support technology commercialization activities across the state. TOIPs are regionally focused and provide support to community members and USTAR researchers with innovative technology ideas to establish spinout companies. ▪ Outreach centers located are collocated with State higher educational institutions: Dixie State University, Salt Lake City Community College, Southern Utah University, Utah State University-Uintah Basin, Utah Valley University, and Weber State University. In addition the TOIP program supports the Bio Innovations Gateway (BiG) a collaborative technology incubator located at the Granite Technical Institute. ○ Project Examples <ul style="list-style-type: none"> ▪ WAVE: <ul style="list-style-type: none"> ➤ Developed by USU’s Wireless Power Transfer team, in cooperation with the Utah Science Technology and Research initiative’s (USTAR) Advanced Transportation Institute at USU, WAVE is attempting to change the way public transportation systems operate by wirelessly charging the battery from a charging pad located under the road surface. The project was led by former USU engineer Hunter Wu, who has now moved to WAVE as their chief scientist. Unlike traditional electric chargers that require the vehicle and the charging device to physically touch or connect, the wireless power transfer (WPT) technology utilized by WAVE occurs magnetically, with no cords or connectors. Additionally, charging can take place through snow, ice and mud. “Wireless Power Transfer is based on magnetic induction principles,” Wu said. “It uses high frequency magnetic fields to jump through an air gap, and transfers large amounts of electric power. It is the first of its kind and has the potential to truly revolutionize 	

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	<p>technology and transportation.”</p> <ul style="list-style-type: none"> ▪ Vaposens: <ul style="list-style-type: none"> ➤ Vaporsens, a Utah Science Technology and Research initiative supported spin-out from the University of Utah and the developer of a unique chemical detection technology has been awarded a Small Business Innovation Research Phase II grant of approximately \$720,000 through the National Science Foundation. Vaporsens is developing an “electronic dog’s nose”. The handheld detector is small, light and can detect the presence of narcotics, explosives, and chemical agents. These detectors can be used to protect critical infrastructure locations, apartment complexes, hotels and ports. It could also be a stand-alone unit that continuously monitors military bases, buildings and subways. The sensor is selective against environmental interferents like cosmetics, gasoline, cigarette smoke and alcohol. Vaporsens’s technology is based on advanced sensor research by USTAR professor Ling Zang, the Nano Institute of Utah and Department of Materials Science and Engineering, and is supported by the Technology Commercialization and Innovation Program (TCIP), the NSF’s Small Business Innovation Research (SBIR) program, the Department of Defense (DOD) and private investors. ▪ Veristride: <ul style="list-style-type: none"> ➤ Leading Veristride’s research and development is Stacy Bamberg, CEO of Veristride. Bamberg has been developing her technology at the Bio Innovations Gateway (BiG). This life science incubator is sponsored by USTAR and acts as an educational institution and workforce training facility providing access to laboratories, equipment, office space and resources for entrepreneurs as they develop medical technologies, without initial capital. Prior to Veristride, Bamberg was an Associate Professor of Mechanical Engineering at the University of Utah (U of U). Veristride is developing a smart insole to help people improve the way they walk. The company has been awarded a National Science Foundation Phase II SBIR grant. Having already won a Phase I grant proving feasibility over a six month period, this Phase II expands the work to help produce a prototype and determine commercial potential over a two-year period. Veristride’s smart-insole connects to a sensor on top of a shoe. As the user picks up their foot and places it on the ground, the insole transmits information to a smart phone device, enabling the patient to interact with the app and evaluate how they are walking. They can then make alterations as needed. By watching and 	

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<p>New Business</p>	<p>New Business</p> <ul style="list-style-type: none"> • Legislative Items – Becky Edwards <ul style="list-style-type: none"> ○ Transportation Funding. ○ Ways to release pressure on General/Education Funds. ○ Prison Relocation- where, how, if and when. ○ Education Funding – biggest increase we have seen in 20+ years. ○ Air Quality and Environment. • IGP Efforts <ul style="list-style-type: none"> ○ Continuing to move forward ○ Working with Senator Osmond. ○ Pilot is up and running in Ogden. 	