

Life as an Innovation Advisor:

Technology Commercialization, Landscaping, and Ideation

2020 Internship Showcase

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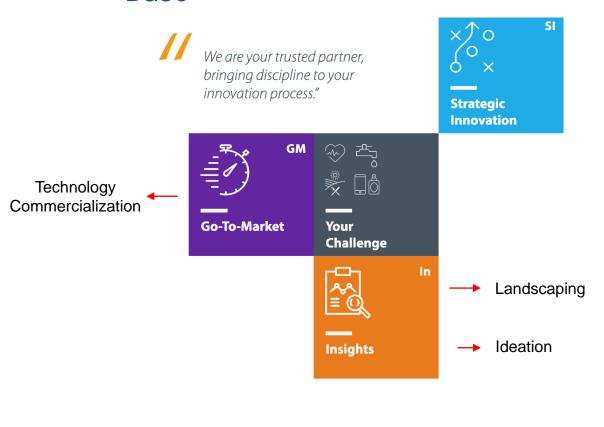






## Innovation Advisors Perform a Variety of Tasks for a Diverse Client Base

- RTI Innovation Advisors (IA) assist a diverse portfolio of clients in a wide range of industries including Consumer Products, Health, Food and Agriculture, and Water.
- ✓ IA facilitates Strategic Innovation, helps client's Go-To-Market with their products, and can providing meaningful Insights into a specific field/market.
- As an IA Intern, I have primarily been involved in Go-To-Market and Insight related projects.





#### **Technology Commercialization for NASA**







**Generating Technology Opportunity Assessment Sheet** 03b Purpose: Inform and attract potential licensures · Distilling wealth of primary/secondary market research into informative and aesthetic brochure-like format · Ideating on potential uses and

applications



#### National Aeronautics and Space Administr Visual Instrument Sensor Organ Replacement (VISOR) Device that converts visual signals to audibly perceptible signals Humans rely heavily on vision to sense their opportur environment. However, visual sensing is generally available only for a limited visible range of wavelengths, roughly 400 nanometers (nm) to 720 nm. Enables user to simultaneously The range of wavelengths at which interesting focus attention on multiple physical and /or chemical effects occur, is 180 aspects of a visual field nm through about 10,000 nm. Audible sensing, over an estimated audible range of 200 Hertz Extends the vision system of (Hz)-20,000 Hz, is similarly limited, but this range human beings is a larger fraction of the audible range of 10Hz-Increases human sensing 105 Hz. The Visual Instrument Sensor Organ resolution Replacement (VISOR) device translates visual Enriches image detail and other passive or active sensory instruments into sounds. The sensing super-position device Operates in real time increases the image resolution perception and is obtained via auditory and visual representation. The VISOR device provides a mapping or assotechnology ciation between signals representing a selected region of a received visual image and audibly perceptible signals that are mapped one-to-one onto a selected set of distinguishable audible signal parameters. External multi-spectral sensors are translated into audible signals targeting the same human vision field VISOR provides the ability to sense beyond the human visible light range, to increase human sensing resolution, to use wider angle visual perception, and to improve the ability to sense distances. It also allows compensation for movement by the human or changes in the scene being viewed. Using the invention, a wide variety of tasks that are difficult or cumbersome to accom-

using limited capabilities of the human user Image courtesy of NASA:

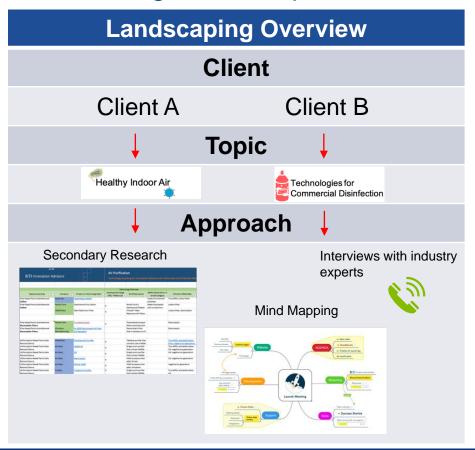
plish can be met. The system operates in real-time.

https://www.nasa.gov/sites/default/files/arc-15578-2.pdf



#### Landscaping: Shallow Snorkeling and Deep Dives

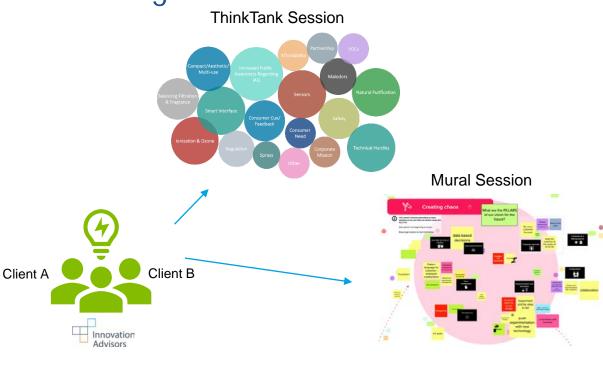
- ✓ Clients approach Innovation Advisors (IA) with a specific interest, but need a broader perspective or more granularity.
- ✓ IA conducts extensive secondary research on the area of interest that includes regulations, scientific validity, trends, technologies, key opinion leaders, market opportunity, and costs.
- ✓ I was responsible for distilling regulation information, profiling technologies and helping facilitate Mind Mapping sessions and interviews with industry experts.





# Ideation: Providing the Resources Necessary for Informed Thought

- ✓ After landscaping, conducted ideation sessions with clients to identify overarching areas of interest, market opportunities, or pain points.
- Utilized multiple different tools including ThinkTank and Mural.
- ✓ I was responsible for helping facilitate and contribute to sessions and transforming resulting data into more quantitative graphics.





### Acknowledgments

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