THALES Building a future we can all trust

VANTIS PPP Business Opportunity & ROI

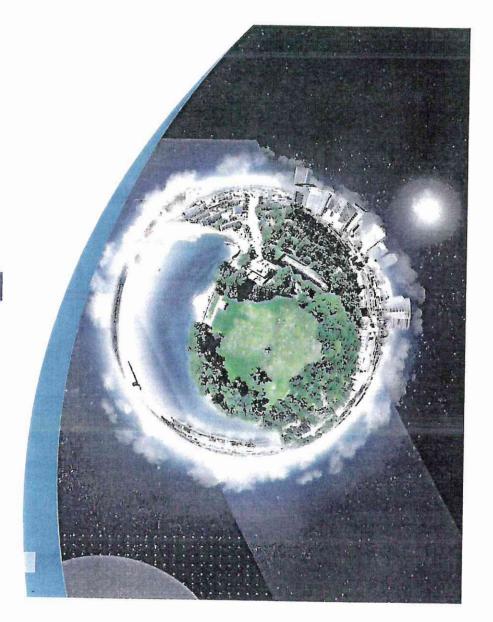
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DISCLOSURE STATEMENT

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Vantis – Return on Investment to North Dakota

Thales tasked to create business plan for ND in December 2020

- Comprehensive look at the UAS Market
- Revenue model assumptions based on demand

Intermediate revenue share today

General fund + Royalties in place

New business model = more revenue

- Additional return on investment comes with FAA validation and approvals
- Partnership between Thales ND
- A PPP structure with 25% stake results in \$22M/yr over 9 years

Goal → Commercial partnership with State of North Dakota

Executive Summary | Recommendations



- Leverage new and a listing relationships for innovative partnerships with federal
- Develop a UTM lest for BVLOS Leverage FAA lest Agraements
- and Later partrent pa
- Fortigate in organizationnips such as NASA's AALE National Campaign and FAA's UKS for Sile Fregram

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- Develop market aspirations for internal Pilat market aspirations in ND teseraging lock tuch on
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- busines; medal can.as

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 strategic communications · Strateg's teaming wga/post,
- But note products implementation and confractor improvement
- Consider other UAS-friendly states (e.g. fe-a. Ca fem'a Ch'a files, Yes' New York We too and May and)

- Shape the vision of the GIM industry to drive consensus for regulaters
- Implement Industry-led UTM coalition and Research and Development efforts
- Develop e ecutable plan to thape favorable legislation . Doctor BASARDA le singuism
- · Leverage test s'ie parlicipation
- Frovide comments that a industry. NASA, Hymeland Security, and FAA
- Augment current table/ng/escurces to engage federal and state legislative brutes for feverable UAS/URLA periods

DECIMIER 18, 2020 TASK ORDER TWO EVELOP A SYLOS SYSTEM TECHNICAL ENGINEERING AND ANTIS STATEVICE DEPLOYMENT PLAN TOTAL THE LAND -----

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Key Risks Determining the Path Ahead



- Acceptable SRM Process
- **UAS Aircraft Certification Business Model Acceptance**
- Amount of demand for network services
- Areas of operation



- Willingness of users to pay service
- Business model and structure
- Decreased levels of State Funding
- Access to / use of FAA Surveillance Data
- Suitable / longer range C2 Link

- Active participation in SRM
- Special airworthiness cert. Work on framework for delegation
- · On-acing user engagement to
- generale value Continue to evolve
- · Active user engagement to validate need
- Demonstrate ROI, cost benefit to ND Leg.
- Advocale to FAA for use of data · Model Yantis impact of no FAA data
- Will investigate C2 attematives

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Vantis Return on Investment - Current Construct

Vantis is close to commercialization but requires additional FAA approvals

- Economic development driving the major returns to the State today
 - Over 100 direct jobs attributable to Vantis today with \$8.5M in tax revenue collected over 10 years
- Tech platform & partnership strengthening
 - Thales & Partner Companies establishing sustainable presence in ND

Current Agreements on Payback to the State

- Century Code Requirement
 - 3% return to General Fund
- Thales made additional commitments to the State
 - Software component royalty payments for Vantis components sold outside ND
 - 5% up to 200% of initial investment
 - 3% until end of Master Agreement with Thales
- Subcontracts from Thales
 - Leverage State's UAS experts outside the State
 - Michigan, Texas, DoD
 - International Opportunities



Pillars for Vantis Network Sustainability in ND and Beyond



The ultimate end state of the program is self sustainability through service fees and public/private equity

- Strategic Investment
- · Vantis Sustainment
- Regulatory/Policy Adoption
- Scalable Operations



The foundation of the program is state funding

Basic funding and implementation of infrastructure to support early adoption of the network



UAS Operations Market Demand & Vantis Offerings

Market Demand Across:

- Recreational Use (not included)
- Commercial Delivery
- Agriculture
- Inspection (Linear & Structure)
- Emergency Response

Market Structure

- Cities (grouping by SM, MD, LG)
- Rural (by area)

Market Offering:

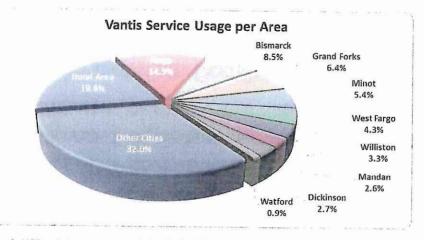
- Infravirueius (normalidad)
- Airspace Manager
- Emergency Services Manager
- * TUAS a Theorie vicinates morbidist
- Local Community Manager
- Supplemental Services Provider

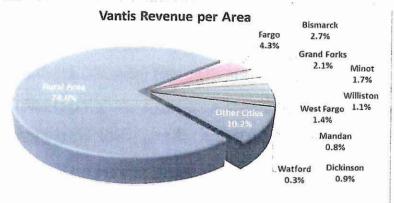


	Use Case Description			Flights	7.0	**		Fleet	
Recreational	Based upon population and UAS adoption statistics / trends		2022	2027	2032		2022	2027	2032
	 Average 4 flights per month / UAS 	Low	0.4 K	73 K	156 K	Low	8	1.5 K	3.2 K
Use	Estimate adoption / penetration (1-5%)	High	0.9 K	178 K	379 K	High	19	3.7 K	7.9 K
A	Estimate retail portion of commercial delivery (15%)		2022	2027	2032		2022	2027	2032
Commercial Delivery	 Estimate of portion suitable for delivery by UAS (5%) 	Low	3.3 K	658 K	1,399 K	Low	2	0.5 K	1.0 K
	Estimate adoption / penetration (1-5%)	High	16.5 K	3,292 K	6,996 K	High	11	2.3 K	4.9 K
Agriculture Use	Estimate number of agriculture locations across the state		2022	2027	2032		2022	2027	2032
	 Assume 4 flights per location per year 	Low	0.1 K	13 K	27 K	LOW	8	1.6 K	3.5 K
	Estimate adoption penetration (5-50%)	High	0.6 K	125 K	267 K	High	0.1 K	16 K	35 K
	Estimate amount of linear infrastructure		2022	2027	2032		2022	2027	2032
Linear	 Inspections per year (infrastructure type dependent) 	Low	0.0 K	6.8 K	15 K	FOM	1	0.2 K	0.3 K
Inspection	Estimate adoption penetration (25-50%)	High	0.1 K	14 K	29 K	High	2	0.3 K	0.6 K
61	Estimate structures and construction sites		2022	2027	2032		2022	2027	2032
Structure Inspection	 Inspections per year (structure type dependent) 	Low	0.2 K	31 K	65 K	Low	1	0.1 K	0.1 K
	Estimate adoption penetration (5-50%)	High	1.5 K	305 K	648 K	High	3	0.6 K	1.2 K
	Covers search & rescue and other emergency responses		2022	2027	2032		2022	2027	2032
Emergency	Estimates based on emergency frequency and land area	Low	0.0 K	8.4 K	18 K	Low	1	41	86
Response	 Estimate adoption penetration (5-50%) 	High	0.4 K	84 K	178 K	High	2	0.4 K	0.9 K
14:			2022	2027	2032		2022	2027	2032
 Low Hightel rule 	value assistatives with Jowan sopres maint of UAU TOTALS for rare in the say date Jeman a	Low	3.9 K	791 K	1,680 K	Low	21	3.9 K	8.2 K
 Association as to the 	na cae sase grown are naderled und rodiffos concer na cae sase grown are moderled und rodiffos concer naderle prodiction did invaniet der letration di 2000	High	20 K	4,002 K	8,505 K	High	0.1 K	24 K	50 K
service to the service of	한 24명 전 1980년(1971년) 25 1971년 - 1985 (25 SEME) 1980년(1 1) (10 1971년(1)						percentage of	E1 4550	, m

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Market Demand Forecast & Revenue Potential





Demand translates into revenue

- 1. Core services pricing
- 2. Value-added services

ND Service Fees Conservatively Estimated to be ~\$30M/year

*Does not include C-UAS & Emergency Services





Thales Supports Creation of PPP with ND to Serve the Full US Market

Notional Structure (basis of financial forecast)

- "VANTIS, Inc." a JV with Thales and ND as partners (and potentially others) set up to operate the Vantis network and deliver UAS integration services to UAS operators.
 - The focus will be ND first
 - This company will be established to pursue all the US market
 - This may include "white-labeling" services for other States
- "BVLOS Infrastructure, Inc." a Infrastructure-as-a-service business to be established with a) value added partners and b) external financing sources
 - High CAPEX business could/should be structured so off balance sheet
 - ND not likely interested in investing in Infrastructure in other States
 - Different partners may be needed vs VANTIS, Inc.
- | Should provide flexible platform to address US market which is estimated to be 40-50% of global market multi-billion per year opportunity



US Nationwide UAS Integration Service Potential is Substantial



Applied same methodology used for North Dakota forecast during Business Case Development

Net Result: Multi-Billion \$ Annual Service Fee Business

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Strong ROI for ND Assuming Success in Just Currently Active Markets

Leverage Ongoing Efforts

- North Dakota
- Logical Neighbors (MN, SD)
- > States with Thales Contracts (MI, NY, TX)

Key Takeaways

- Grows to \$1-2B/year business
- Assuming ND takes 25% of profit \$200M returned to ND in first 10 years
- And ND retains 25% (assumption) ownership of a business generating \$200M+ in profit per year



\$M	2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		Cumm	
Nominal Revenue	\$	3.5	\$	17.3	\$	36.0	\$	90.1	\$	216.2	\$	450.4	\$	720.7	\$	1,081.0	\$	1,261.1	\$	1,441.3	\$.	5,317.6
Nominal Profit (15%)	\$	0.5	\$	2.6	\$	5.4	\$	13.5	\$	32.4	\$	67.6	\$	108.1	\$	162.1	\$	189.2	\$	216.2	\$	797.6
ND Share (25%)	\$	0.1	\$	0.7	\$	1.4	\$	3.4	\$	8.1	\$	16.9	\$	27.0	\$	40.5	\$	47.3	\$	54.0	\$	199.4



Thank You