National Aeronautics and Space Administration

NASA Stennis Strategic Plan 2024 - 2028

NASA Stennis

Strategic Plan

2024 - 2028

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Message from

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NASA Stennis Space Center Director

NASA has a clear goal and plan for the future – to explore, innovate, and inspire; to return humans to the Moon; and to prepare for missions to Mars. NASA 2040 is an agency initiative to ensure that by the year 2040, NASA is the preeminent institution for research, technology, and engineering to lead science, aeronautics, and space exploration for humanity. NASA Stennis has a clear goal and plan as well – to meet the challenges of a changing world; to adapt and evolve; and to transform the way we do business.

We are forging new partnerships, working with commercial aerospace companies to provide the services and capabilities they want and need. We are expanding our lines of business beyond propulsion testing to include autonomous systems and range operations. We are transforming our federal city model to attract new companies onsite and serve as an aerospace and technology hub. We are investing in members of our workforce so they are equipped for the future and for work that future entails.

We are in a time of change – and change brings uncertainty. However, change offers possibilities and opportunity as well. A famous quote I like states, “The best way to predict the future is to create it.” We are embracing the possibilities and seizing the opportunity before us. As a team and as a family, we are moving, going forward, going further, building the NASA Stennis future together.

NASA

Vision

Exploring the secrets of the universe for the benefit of all.

Mission

NASA explores the unknown in air and space,
innovates for the benefit of humanity, and
inspires the world through discovery.

STENNIS

Vision

Innovate to transform propulsion
testing, empower intelligent space missions,
and modernize support services to maximize
partnership opportunities that secure NASA Stennis' future.

Mission

NASA Stennis accelerates the exploration
and commercialization of space,
innovates to benefit NASA and
industry, and leverages assets
to stimulate the economy and
enhance national security.

Propulsion

"We're looking forward to writing some new history at Stennis. The access to infrastructure in Mississippi is unparalleled."

- Relativity Space Co-founder/CEO Tim Ellis

Goal:

1.0 NASA Stennis will operate a multi-user propulsion testing enterprise that accelerates the development of aerospace systems and services by government and industry.

Objectives:

1.1 Use market-driven, business case analyses to guide investments that enable a sustainable propulsion testing capability for components, subsystems, engines, and stages.

1.2 Innovate to modernize engineering, operations, and infrastructure to maintain high utilization of propulsion testing assets and capabilities by government and industry.

1.3 Develop, demonstrate, and deploy technologies that enhance the effectiveness and efficiency of the propulsion test mission.

1.4 Modernize business and support services to reduce the time and cost to conduct propulsion testing at NASA Stennis.

Federal City

"The unique NASA Stennis Federal City model creates significant value for NASA and its tenants by sharing common costs, enabling greater operational and mission efficiency."

- NASA Stennis Associate Director Rodney McKellip

Goal:

2.0 NASA Stennis will review, validate, and adjust the Federal City business model to enable growth and improve long-term sustainability.

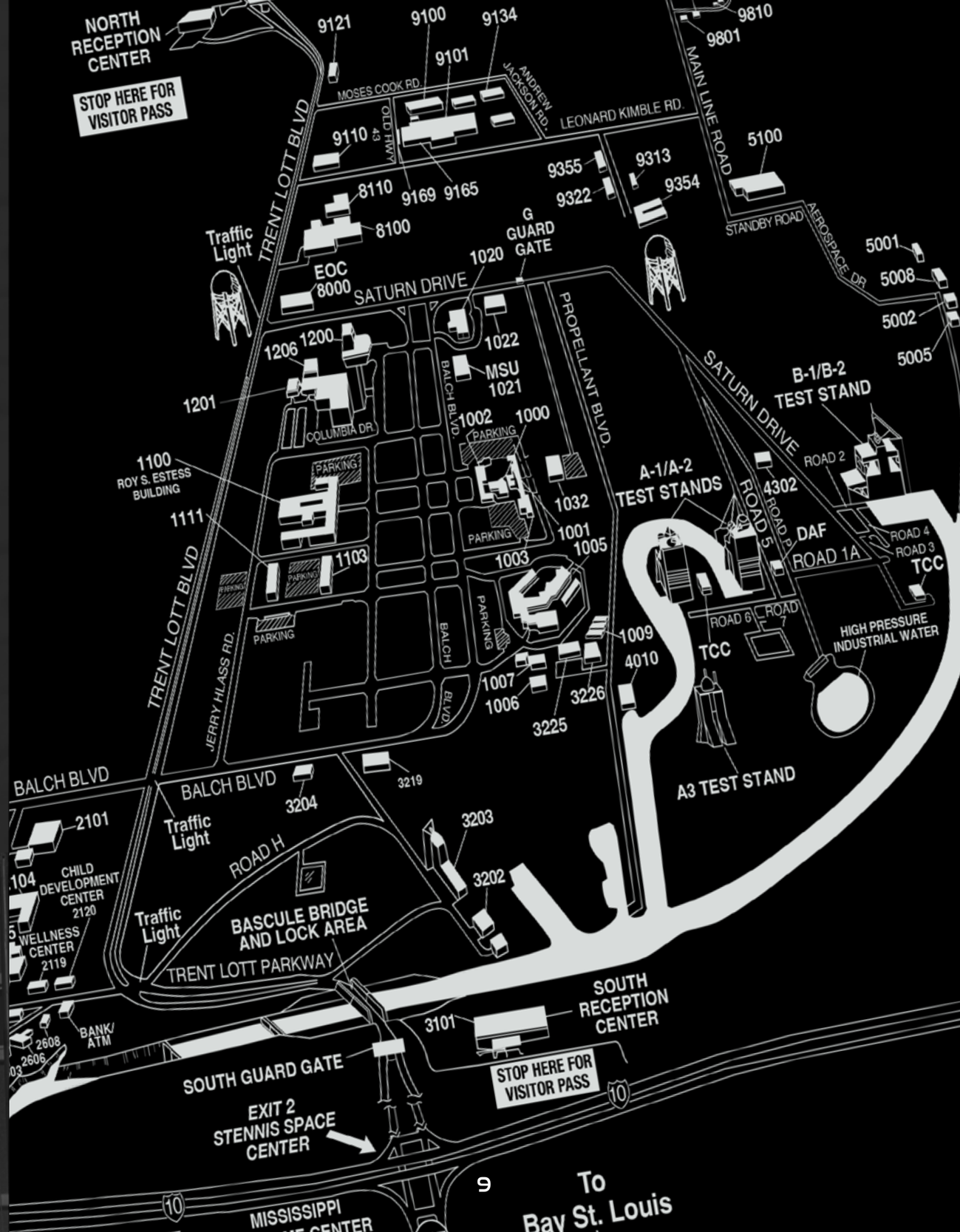
Objectives:

2.1 Create a long-term capital improvement plan for horizontal and vertical infrastructure in the Federal City.

2.2 Optimize the Federal City footprint to create opportunities for growth.

2.3 Validate existing service levels to meet the needs and budgetary constraints of Federal City tenants.

2.4 Increase awareness of the value of the Federal City to current and prospective tenants.



Autonomous Systems

"We can do things fast (with this team). This (simulation) was really impressive."

- Lockheed Martin Space Systems Director Paul Anderson, after viewing a NASA Stennis demonstration of autonomous systems capabilities required for space operations

Goal:

3.0 NASA Stennis will design autonomous systems that accelerate the development of intelligent aerospace systems and services by government and industry.

Objectives:

3.1 Conduct a competitive assessment of autonomous systems capabilities to identify strengths and weaknesses.

3.2 Conduct a market survey to identify potential government and industry customers.

3.3 Develop a plan to diversify autonomous systems capabilities to respond to the needs of the market.

3.4 Develop partnerships with NASA, industry, and other government entities to create and deploy intelligent, autonomous systems.

Range Operations

"If I had to design an ideal setting for a variety of range operations, it would look a lot like NASA Stennis."

– NASA Stennis Center Operations Director Pat Appelman

Goal:

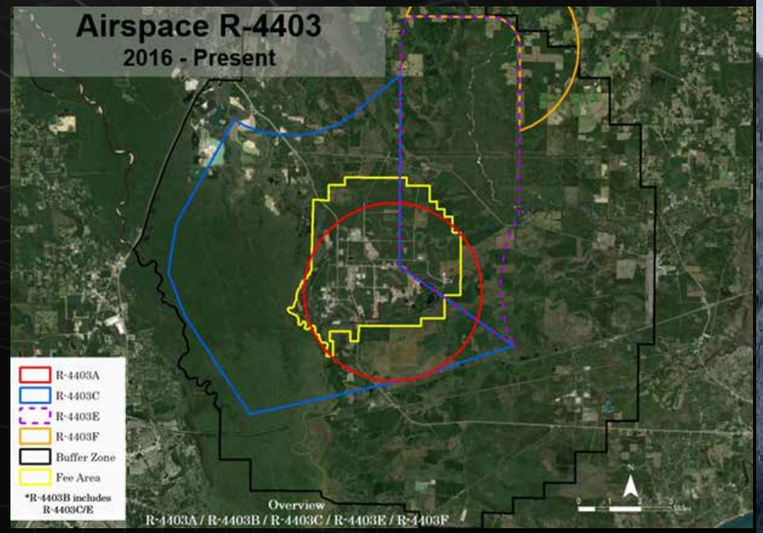
4.0 NASA Stennis will leverage unique capabilities, including the restricted airspace, canal system, buffer zone, and infrastructure to support testing and operation of uncrewed systems.

Objectives:

4.1 Use market-driven, business case analyses to identify uncrewed systems activities that benefit from NASA Stennis range assets and infrastructure.

4.2 Identify gaps that must be mitigated to expand utilization of the range.

4.3 Create a range operations business model that increases range utilization.



Workforce Development

"Our focus at NASA Stennis is clear – to identify, train, and retain the workforce that will lead into tomorrow and beyond."

– NASA Stennis Deputy Director John Bailey

Goal:

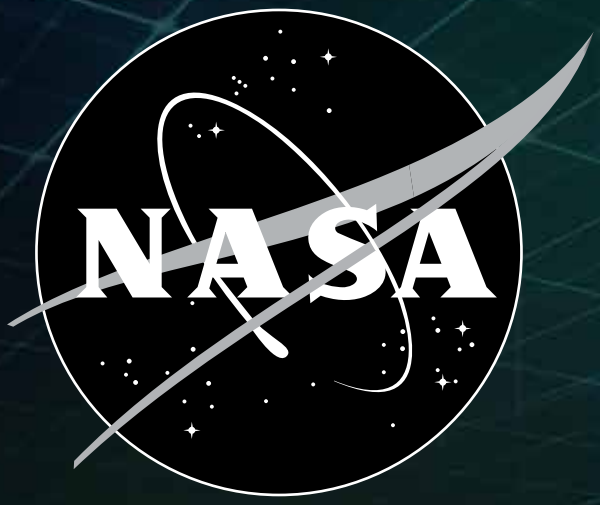
5.0 NASA Stennis will cultivate a civil servant workforce representative of NASA's core values with the skills to transform, optimize, and modernize the work of NASA Stennis for the future.

Objectives:

5.1 Seek innovative ways to intentionally recruit a high-performance civil servant workforce, and cultivate a flexible, inspiring workplace environment to maximize employee and mission success.

5.2 Proactively invest in personnel development to upskill and reskill the workforce to align with the rapidly evolving needs of NASA and our industry partners.

5.3 Identify and implement additional opportunities to build workforce efficiencies through better integration of mission support services across NASA Stennis and the NASA Shared Services Center.



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