

Project	What we need to do	Target	Outcome
1. National Science and Technology Fair (292.63 Million Baht)	<ol style="list-style-type: none"> Expand access to science, technology and innovation (STI) activities in different regions. Inspire the use of science, technology and innovation to improve quality of life, to guide career paths for young scientists and to stimulate innovation among the youth. 	<ul style="list-style-type: none"> 400,000 children and youth 280,000 teachers 120,000 family and the general public Total of 800,000 people 	<ul style="list-style-type: none"> Give children, youth and the general public access to government knowledge services in each region. Society will benefit economically from the Fair.
2. Regional Science Square (Chiang Mai) (102.5 Million Baht)	<ol style="list-style-type: none"> Promote STI by creating an installation called Jobs of the Future. Installation will stimulate local youth in their career decision-making through a permanent exhibition and an online Virtual Museum. 	240,000 youth, teachers, parents, general public and Thai/foreign tourists.	New space to serve as a hub for innovators.
3. Caravan of Science NSM Careers (47.36 Million Baht)	Allow young people in remote areas to access STI learning activities around the concept “Building People Creating STI Careers” by adding new routes for the Science Caravan (Mobile Unit) across different locations.	200,000 students and teachers to join the new science caravan events.	Provides an opportunity to learn about STI and encourage students to visit the central museum Futurium.

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4. Invention Science Competition (50 Million Baht)	<ol style="list-style-type: none"> 1. To set up a competition for the youth to develop their work. 2. Competition will be an opportunity to learn from participating and collaborating with others. 3. This will prepare participants for international career paths as researchers, scientists and innovators. 	15,000 school and university students come to see the competition.	<ul style="list-style-type: none"> - STI youth role model - New inventions to be innovation.
5. Instructional media for “Coding at School” (141 Million Baht)	<ol style="list-style-type: none"> 1. Create an opportunity for the youth to learn systematic thinking by computer programming and making practical code through the “Coding at school-KidBright” project. 2. Transfer computer programming knowledge to junior high school students in the region and underprivileged schools, included in developing the teaching of STEM. 	<ul style="list-style-type: none"> - 1,000 schools - 200,000 Junior high school students 	Elevate Thai youth to use innovation to solve daily problems and to learn computer programming.

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6. The prototype Engineering Workshop (Fabrication Lab) to develop the innovator skills for Thai youth (189.5 Million Baht)	<ol style="list-style-type: none"> 1. Create space and make tools available that allow students to learn how to make inventions by using the prototype Engineering Workshop (Fabrication Lab). 2. Develop activities for students and teachers to develop science, technology and engineering skills to build the knowledge to create tangible products. 	150 schools/vocational colleges/technical schools in all regions.	Students use the Fabrication Lab to create their work.
7. Advance Technology for Production of High Quality Herb (177.5 Million Baht)	<ol style="list-style-type: none"> 1. To develop a modern cropping system (Advanced Technology for Production). 2. Make a “Plant factory”) that can produce herbal plants and standard bioactive compounds to upgrade the herbal industry in Thailand to be innovative. 	<ul style="list-style-type: none"> - Groups of farmers and community enterprises who want to use technology to produce quality herbs. - Develop a raw material partner network to produce high value products. 	<ul style="list-style-type: none"> - Make the herbal industry into a standardized production system. - Build on the production of herbs in more than 300 species. - Build on high value herbal production for vaccine production.

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8. National Biobank for conservation, research and utilization (760 Million Baht)	1. To conserve and preserve biological resources and raise awareness of creatures that become extinct by storing related information to be used for research, development, value creation and utilization of biological resources in the future. 2. To secure the protection of the nation's biological assets, the cornerstone of biological economy development to achieve wealth and sustainability.	<ul style="list-style-type: none"> - Manufacturing of herbal products and food products/supplements. - Create an agency for biological resources for the government and educational institutes/medical faculties, along with hospitals around the country. 	<ul style="list-style-type: none"> - Allow Digital Biobank to lead to utilization in the industry and promote Green Economy and innovation in the Thai medical industry. - Promote the development of important biological economies.
9. DentiiScan Research Expansion Project to develop Thai medical equipment industry (547.38 Million Baht)	1. To make a starting point to drive the development of the medical device manufacturing industry and the provision of comprehensive dental services by producing the DentiiScan. 2. This will be used as a channel to create a collaborative network of dentists, dental equipment manufacturers and dental patients.	Install 50 DentiiScan machines in government hospitals.	<ul style="list-style-type: none"> - Build on the development of the medical device industry and services. - Increase the quality of life in oral health. - Reduced price.

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<p>10. One Tambon One Agricultural Innovation (88 Million Baht)</p>	<p>Blend the local wisdom of farmers with the principles of science to improve efficiency and drive innovation to develop agriculture in all districts throughout the country in 2018 and expand to all tambon (sub-districts) in Thailand by 2020.</p>	<ul style="list-style-type: none"> - 40,000 farmers - 2,000 groups of farmers 	<p>Farmers make use of STI and can innovate to become Farmers 4.0.</p>
<p>11. Raising OTOP in the poorest province in the country (439.98 Million Baht)</p>	<p>Using the available technology from the Ministry of Science and Technology and the entire network to help 10 poor provinces in parallel, focusing on OTOP.</p> <ol style="list-style-type: none"> 1. Community Development Department: <u>Point to the problem</u> 2. STI + Educational institution: <u>modify</u> 3. Pracharath Rak Samakkee Company: <u>Find a market</u> to increase the entrepreneur's income. 	<p>2,000 groups of OTOP in the 10 poorest provinces of the country.</p>	<p>Use science and technology to enhance OTOP in 10 poor provinces.</p>
<p>12. Tech-based Startup Development with Regional Science Parks and Networks (TESNet) (174.8 Million Baht)</p>	<p>Promoting tech-based startups as new economic warriors in the region that can benefit the government's initiatives from the past year (Innovation Hubs) to be released commercially, using a mechanism of operation and service from the Tech Enterprise Service Network.</p>	<ul style="list-style-type: none"> - Tech-based startup/Enterprise from the Innovation Hubs Program. - Entrepreneurs from the Regional Innovative Startup Program. 	<p>Establish a service provider network for tech-based startups with a complete range of service covering six regions.</p>

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13. Support the establishment of science classrooms in schools “Science Classrooms In University-Affiliated School Project (SCIUS)” Phase 2 (112.18 Million Baht)	Increase opportunities for talented children to study science, by providing curriculum and educational management in science and technology by expanding the educational base to the region and collaboration between universities and schools.	180 middle school (Grade 9) students to join the science and technology study program, lasting for three years per student.	Create a pathway for students who interested in science.
14. Master Factory of Complete food innovation (169.5 Million Baht)	<ol style="list-style-type: none"> 1. Make a ‘food innovation’ factory for the private sector in the processing and production of High Value Added Products for SMEs and startups in the area 2. This will support food entrepreneurs to create innovative market tested products prior to expanding their business operations. 3. Upgrading food operators to compete in the global market. 	Food industry entrepreneurs (Small and Medium Enterprise/SMEs) and food innovation startups in the North.	A complete ‘food innovation’ factory, able to produce, analyze, test and certify.