Final Data Summary
July 21 – August 5, 2017

2 weeks
25 participants
6 prototypes
1. Who are the participants?
**Demographics**

- **Gender**
  - Female: 40%
  - Male: 60%

- **Formal Education**
  - Graduate: 52%
  - Undergraduate: 40%
  - Other: 8%

- **Professional Experience**
  - Sustainability: 15%
  - Agriculture: 13%
  - Engineering: 11%
  - Management: 11%
  - Social Entrepreneurship: 16%
  - Education: 18%

- **Citizenship**
  - United States: 12%
  - Thailand: 24%
  - Bangladesh: 8%
  - Nepal: 12%
  - Malaysia: 4%
  - India: 4%
  - France: 4%
  - Germany: 4%
  - China: 4%
  - Brazil: 4%
  - Singapore: 4%
  - Cambodia: 8%
  - Nepal: 12%
  - Myanmar: 4%
  - Pakistan: 4%
  - Singapore: 4%
  - Thailand: 24%

- **Student Experience**
  - 0 Local
  - 6 National
  - 19 International

- **Number of Participants**: 25

*Local participants were recruited heavily for several months leading up to the summit, with different degrees of engagement throughout the summit depending on availability.*
### Short Term Goals

“Between now and the end of IDDS, what do you most hope to accomplish?”

<table>
<thead>
<tr>
<th>Goal</th>
<th>Number of Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learn strategies for teamwork, facilitation, and co-creation.</td>
<td>16</td>
</tr>
<tr>
<td>Develop or improve my design skills.</td>
<td>14</td>
</tr>
<tr>
<td>Meet and work with people from other cultures</td>
<td>13</td>
</tr>
<tr>
<td>Join a strong network of innovators</td>
<td>12</td>
</tr>
<tr>
<td>Learn to facilitate the design process</td>
<td>9</td>
</tr>
<tr>
<td>Produce a project that I can keep working on after the summit</td>
<td>7</td>
</tr>
<tr>
<td>Interact with local communities in a meaningful way</td>
<td>6</td>
</tr>
<tr>
<td>Learn more about local challenges and opportunities in Sisaket</td>
<td>5</td>
</tr>
<tr>
<td>Develop or improve my construction skills</td>
<td>5</td>
</tr>
<tr>
<td>Come up with an innovative idea to solve a problem</td>
<td>4</td>
</tr>
<tr>
<td>Further develop a project I have already been working on</td>
<td>3</td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
</tr>
<tr>
<td>Learn more about myself as an individual</td>
<td>0</td>
</tr>
</tbody>
</table>

**N=25**

1-4 responses possible
“My short-term goals in this summit are to learn new innovative ideas, select applicable and replicable ideas in the summit and share experiences with the participants.”

“Support a dynamic and enthusiastic team tackling a challenging design problem. Facilitate investigation of the problem and create a creative thinking environment. Form an innovative solution that can be prototyped by the end of the summit.”

“To work on ideation, design and development processes. To have experience working with tools and with local community to build product that will be useful. To experience Thai culture and food.”

“I want to do something meaningful and learn new things and at the same time, hopefully contribute my knowledge. Hopefully, someone will learn something from me too.”

“To get to meet and know more people and to get inspiration on what I want to do in the future.”
“What do you MOST hope to accomplish in the 12 months after IDDS?”

- Bring new collaborative design techniques into my current job or role. (17 responses)
- Teach what I have learned about design, co-creation and development to others. (15 responses)
- Engage in further study or research about design or development. (11 responses)
- Get involved with a local community of designers or IDDS alumni where I live. (10 responses)
- Work on an innovation or venture. (9 responses)
- Start a new job/internship in the design or development fields. (3 responses)
- Other. (0 responses)

N= 25
1-3 responses possible
"Share what I have learned from IDDS to my colleagues."

“I hope to incorporate elements of what I learned here to the students I teach back home.”

“I want to apply design thinking and co-creation approach to my community project at my farm.”

“I would love to keep working on the projects that we work on here at IDDS Sisaket after returning to my hometown. My country is also facing similar issues or challenges that IDDS Sisaket is focused on so I would like to use the things learned from here for the development of people in my country."

“I work in the corporate leadership development space, and am really interested in thinking about how to integrate design thinking and creativity into our offerings, through both the content we offer and how we deliver it.”

“After the summit, I would like to be more involved with IDIN and also would love to work directly with MIT D-Lab. I am implementing some large scale projects on Agriculture... I would love to collaborate with D-Lab and IDDS.”
For me, IDDS will be a success if…

"People are open minded."

“We ask the hard questions and spend the next two weeks working together with community stakeholders to answer them."

“We all partners in the summit, organizer, facilitators, participants and villages are well cooperated and understand the real needs of the community and find out the solution to sustainable development in Baan Hang Wao."

“We develop the self-awareness needed for successful design."

“These driven people learn of ways to have an impact beyond this project."
2. What did participants do?
This summit brought together a mix of facilitated sessions combining IDDS and DSIL human-centered design training, with expertise from Raitong Organics Farm.

Harnessing this learning, participants worked in diverse teams, across dynamic experiences, to build low-cost solutions centering local community needs.
BUILD-ITS!
Building Capacity

Participants chose from several ‘build-it’ sessions designed to cultivate new skills, ranging from metalworking to data science.

These sessions helped prepare participants for their IDDS projects. This is a core component of the IDDS curriculum.
Organizers integrated several community demonstrations into the summit. These were scheduled sessions intended to engage community members in hands-on activities.

This encouraged community members to participate throughout the summit, as well as catalyze potential future programming.
THAI MEALS, FOOD FOREST, and BONDING

Team Bonding

Participants were treated to a variety of Thai cuisine throughout the summit, including classic dishes from the northeastern Isaan region. This was an important time to rest for team members, as well as to engage with individuals on other teams.

Part of the IDDS experience involved working and living on our local partner’s organic farm, within the local village. Participants helped plant a food forest as part of a morning of service.

Participants and organizers took a full day off to catch up on sleep, spend time with each other, and visit Khao Phra Wihan National Park (where it’s possible to see the intersecting borders of Cambodia and Thailand), as well as perform poetry, sing, and dance in a Culture/Talent night.
Villagers’ silk products are disconnected from markets with appropriate buying power and demand. Silk is considered a high-value product that is purchased for special occasions, such as going to the temple, to weddings or as a gift. Through creative engagement methods, the team brought together youth and elders in the village to collaborate on this project. The team designed two prototypes: (1) A collection of silk products co-created with the silk weavers and sold to the IDDS community. These products included three sizes of shoulder bags, small satchel bags, blouses with silk pockets, and fisherman pants with silk accents. (2) A fashion show organized by the village youth and held during the final IDDS expo, in which the prototyped silk products were displayed.
WASTE MANAGEMENT

Local waste management educational activities

Almost all surveyed villagers burn waste, either in the rice paddies or near their houses. They also noted that most of this burning happens in the late afternoon, and creates smoke/pollution which smells and can be a nuisance to neighbors. A sizeable percentage of the waste that is burned in Baan Hang Wao consists of tetra packs – the paper-ish material used to make things like small and large juice boxes, which is not recyclable here. The team focused on tetra packs – an easy to clean, high use product - in an effort to 1) physically reduce trash that would otherwise be burned, 2) demonstrate how to re-imagine the idea of “waste”, and 3) create items that can be used for play by children.
Diabetes and hypertension are common health problems indicated by the villagers. Local health volunteers think it is due to the villagers’ diet and insufficient nutrient intake. The team designed a series of simple exercises for villagers, emphasizing adults. The team created basic exercise equipment using local bamboo to supplement the exercises. Their project was rapidly taken up by local villagers who had wanted to establish similar initiatives, working with the team to establish a health club who meets daily to lead each other in different exercises.
Farmers have trouble getting rid of snails and weeds organically. Most utilize chemicals for pest control, specifically for snails, an invasive species to the region. These chemicals are expensive and with the market price of rice dropping, farmers are continuously trying to lower labor costs. This team designed an experimental intervention using locally bred ducks. They built a large pen to house the ducks, and worked with a local partner to coordinate a strategy for experimenting use of ducks to eliminate snail pests.
INTEGRATED EDUCATION

PLEARN: game-based approaches to English language learning

The local school identified English language learning as a critical need. The principal’s vision for students’ English skills is connected to new macro development in international relations within Thailand, and he is determined to set his students up for success as part of building Thailand’s future. To assist in this endeavor, the team developed a series of activities to assist in learning English. Guided by a game-based approach, the activities were designed such that local teachers can integrate them into their existing curriculum.
ORGANIC AGRICULTURE

Organic removal of weeds

Local farmers have identified weed control as a major difficulty for tending their rice fields. Usual methods require bending down to pull the weeds by hand or utilizing heavy tools. The team designed a double blade weed killer intended for use in between rice paddy rows and to increase ease of use without sacrificing efficiency. The team improved on an existing model designed by a local farmer using a spectrum of different specifications and community feedback to create their final prototype.
Final Reflections
“Please share your thoughts on the value of IDDS. What aspects of the IDDS experience have been most valuable to you, and why?” (Coded responses)

- Building connections: 16
- Co-creation: 11
- Engaging with communities: 10
- Learning more about local cultures: 8
- Personal growth: 8
- Learning more about design process: 8
- Acquiring new skills: 3
- Professional growth: 3
- Developing a project: 1

N= 24
“IDDS created a unique space for like-minded people with diverse background to work together with communities on real problems.

It gets me to truly understand design thinking as I got to learn and implement it to real social problems….

I made connections with other unique participants who are driven to make changes….

The build it sessions were also inspiring [and] made me realize I could learn to do things although I have never done it before….

Working with the community made me see that community members have potential to learn and create something new within a short period of time."

“Working on a diverse group for local community and coming together for sustainable solution was great experience for me as we have different views, skills and vision.

It has strengthened my vision in this era of globalization.”

“IDDS forum is a platform where participants can dance with their cultures, experiences. I value the co-creation technique most.”

“It’s a great opportunity to work with people around the world sharing views and ideas which not only benefits this community but also the community from where we come from. After this summit, every participant can contribute to work further on different aspects, creating a global community, which is absolutely amazing.”
“What skills and/or knowledge do you feel you have gained or developed over the past two weeks as a result of participating in IDDS?” (Coded responses)

Skills/Knowledge Gain: CODED

- Design Skills: 15
- Teamwork: 12
- Self learning: 8
- Communication skills: 5
- Community engagement skills: 4
- Co-creation: 3
- Knowledge of specific local sectors: 3
- Technical skills: 3
- Knowledge about local cultures: 2
- Business development: 1

N= 24
"An understanding of each step of the human centered design process."

"I have gotten a lot more comfortable with different methods in the design process. I really enjoyed the session on empathy and deep listening and think that I will remember a lot of that both in my personal life and work.

It was also an intense but really good team work experience where I learned a lot about myself. I think I have never gotten so much feedback on the way I operate in a team, so that was really helpful."

"IDDS refined my thought process of addressing challenges, specially the design process was an excellent learning for me. So my skills on design process will be very useful.

Also I am now more confident to make our academic partners more engaged in our programs and projects as I reconfirmed the importance of the role of academia in development process, which is missing at some extent [in my home country]."

"This was a good opportunity for me to reflect, specifically on what it mean to work within such a diverse group."

"I see teamwork in a completely new light."
“Have your attitudes or perspectives changed in any way over the past two weeks as a result of participating in IDDS?” (Coded responses)

- Improved cross-cultural understanding/empathy: 9
- Self-awareness: 8
- Inspiration to take action: 8
- Better understanding of the design process: 6
- Increased appreciation for working in a team: 6
- Improved understanding of local culture/context: 4
- Increased self-confidence: 2
- Increased appreciation for connecting with: 2
- Ability to creatively use local materials

N= 24
"Often, we create solutions with a top-down approach but this experience taught me to listen and really understand the users in order to come up with solutions that fit them (as opposed to a top-down approach)."

Yes, I have come to believe in the value of the human centered process in an international development community. In particular, the focus on understanding the people that we are designing for allows for solutions that are appropriate in the particular context.

I have a better attitude in working for a community. I feel more hope and new ideas and possibility for my farm and community.

Yes, first thing is "people over process over product" rule of the project. Actually it's always hard to keep people in the center of project but its important, and at IDDS we take this hard way and did as much as we can to keep people in the center. This attitude can be very important to actually make change in the lives of people.

Yes, my perspectives on processing of ideas, and understanding people and environment have grown. IDDS has grown my vision and thoughts of possibilities for taking humanity as religion for serving social problems.
Changes in Confidence Levels
Average Self-Assessed Rating Before and After IDDS

Building things with wood, metal and other materials
- Before IDDS: 3.6
- After IDDS: 4.3

Living and working in an unfamiliar environment
- Before IDDS: 3.4
- After IDDS: 4.3

Working resourcefully with locally available materials
- Before IDDS: 3.5
- After IDDS: 4.3

Creating a solution with users (Co-Creation)
- Before IDDS: 3.5
- After IDDS: 4.4

Clearly defining and framing a problem
- Before IDDS: 3.5
- After IDDS: 4.6

Working in diverse teams
- Before IDDS: 3.8
- After IDDS: 4.6

Gathering info and feedback from community members
- Before IDDS: 3.8
- After IDDS: 4.6

Rating scale of 1-5 was used
3. What happens next?
“Now that you've completed IDDS, what are your primary goals in the next 12 months?”

<table>
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<tr>
<th>Goal</th>
<th>Post-Survey</th>
<th>Pre-Survey</th>
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<td>Other</td>
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N= 24
“How do you plan to continue working on your IDDS project in the future?”

- **63%**: I have no plans to continue with this project after IDDS.
- **33%**: I plan to actively continue developing the project.
- **4%**: I will stay in touch to check up on progress, but I will not work on it actively.
Future Involvement with IDDS Sisaket

- Summit/workshop organizer: 12
- Workshop facilitator: 12
- Mentor: 6
- Graphic Designer: 1
- Local community engagement: 1
- Not interested: 1

N=24
Thank you! ขอขอบคุณ

Special thanks to the IDDS 2017 Sisaket M&E Team: Areeya Tivasuradej and Debbie Tien

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