

EDGE-NEXT "Practical Phase" Results (As of July 31, 2020)

| Fiscal Year | Number of teams for Advanced Phase in the previous year | Adoption rate: number of adopted teams / application teams | Names of adopted team members       | Theme of adopted team                                  | Activities in Practical Phase                                 | Achievement of activities   | Status of starting business         |
|-------------|---|--|-------------------------------------|--|---|---|-------------------------------------|
| 2017        | 11  | 2 teams / 3 teams  | Kenjiro Yamamoto,<br>Masaomi Suzuki | Earthquake resistance by special painting              | Market verification activity in Nepal                         | Performed earthquake resistant measures to world heritage in Nepal through LOI agreement with a business partner in Nepal and support from Nepal government                             | Jan, 2019<br>Aster Co.,Ltd.         |
|             |   |  | Yuki Nishigaya                      | New development of nitrification suppression pesticide | Did negotiation for partnership with global pesticide vendors | * Started negotiation for supply to large pesticide vendors in Europe<br>* Participated in pitch contest in Silicon Valley for global pesticide startups (8th place among 24 companies) | Mar, 2018<br>AgroDesign Studio Inc. |

|      |    |                 |              |   |   |  |             |
|------|----|-----------------|--------------|---|---|--|-------------|
| 2018 | 20 | 1 team / 1 team | Sunghoon Lee | Realtime measurement device for IPS myocardium cell | Prototype device design for turning experimental technology in laboratory into commercializable device technology | Confirmed that the status of cell can be measured in high accuracy by electric potential without placing stress on myocardium cell through 1 micro meter mesh sensor network | Not decided |
|------|----|-----------------|--------------|---|---|--|-------------|

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|------|----|-----------------|---|---|---|---|------------------------|
| 2019 | 14 | 1 team / 1 team | Shishikin Victor, Beloly Ilya, Hollerit Bernd | Lending and borrowing service for battery in the region with no electricity service | Made product prototype to do market verification experiment in Tanzania, Africa | By the prototype confirmed the function that electricity status can be shared among battery lender, borrower, and administrator within 10km range without wireless environment and billing and collection of cost can be done by smartphone | Plan to start business |
|------|----|-----------------|---|---|---|---|------------------------|

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|------|----|-----------------|--|--|---|--|-------------|
| 2020 | 16 | 1 team / 1 team | Ryota Uesugi, Hiroto Nakamura, Tomoya Higo, Masaru Nakatsuji | Commercialization of new thermoelectric conversion component using anomalous Nernst effect | Application of basic patent before collaboration with partner companies | Processing patent application after completing specification of device structure, device process, system structure, and system operation method with five practical examples | Not decided |
|------|----|-----------------|--|--|---|--|-------------|