

Application Form of EASTS IRG

Date of Submission: 2018/06/07

<p>1. Name of IRG: Freight System Supply Chain Resilience and Productivity Transformation in Locations Subject to Climate and Natural Disasters</p>
<p>2. List of research members</p> <p>1) a) Name of representative: Dr. Ken Doust b) ID number of :EASTS Regular Member: au-95-18-0008 c) Affiliation: Southern Cross University d) E-mail: ken.doust@scu.edu.au e) Tel: +61417081085 f) Country/Region & Address: Australia & Military Rd., East Lismore, NSW 2480</p> <p>2) a) Name: A/Professor Naoya Akita b) ID number of :EASTS Regular Member: JP-18-18-0632 c) Affiliation: Division of Maritime Logistics Sciences, Graduate School of Maritime Sciences Kobe University d) E-mail: akita@maritime.kobe-u.ac.jp e) Tel: +81-78-431-6257 f) Country/Region & Address: Japan & 5-1-1,Fukae,Higashinada,Kobe,658-0022</p> <p>3) a) Name of representative: Dr. Yu-Kai Huang b) ID number of :EASTS Regular Member: TW-95-13-0153 c) Affiliation: Department of Culture and Creative Enterprise Management, Nanhua University, Taiwan d) E-mail: osilo.huang@gmail.com e) Tel: +886-912581213 f) Country/Region & Address: Taiwan & 55, Sec. 1, Nanhua Rd., Dalin Township, Chiayi County 62249</p> <p>4) a) Name of representative: Dr. Dong Yang b) ID number of :EASTS Regular Member: au-95-18-0008 c) Affiliation: Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University d) E-mail: dong.yang@polyu.edu.hk e) Tel: +852 2766 7413 f) Country/Region & Address: Hong Kong & CD401c, CMA Building The Hong Kong Polytechnic University Hung Hom, Kowloon</p> <p>5) a) Name: Mr. Andrew Swan (Potential Phd candidate) b) ID number of :EASTS Regular Member: TBA c) Affiliation: Southern Cross University d) E-mail: andrew.swan@scu.edu.au e) Tel: +61490069961 f) Country/Region & Address: Australia & Military Rd., East Lismore, NSW 2480</p> <p>6) a) Name: Dr. Elnaz Iranazhad b) ID number of :EASTS Regular Member: TBA</p>

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- c) Affiliation: Southern Cross University
- d) E-mail: TBA
- e) Tel: +61432712822
- f) Country/Region & Address: Australia & Military Rd., East Lismore, NSW 2480

- 7) a) Name: Dr. Jeremy Novak
b) ID number of :EASTS Regular Member: TBA
c) Affiliation: Southern Cross University
d) E-mail: jeremy.novak@scu.edu.au
e) Tel:+61498122346
f) Country/Region & Address: Australia/Locked Mailbag 4, Coolangatta, Queensland. 4225
- 8) a) Name: Dr. Hanna Grzybowska (Potential Research Member, to be confirmed)
b) ID number of :EASTS Regular Member: TBA
c) Affiliation: UNSW
d) E-mail: h.grzybowska@unsw.edu.au
e) Tel:+61 2 9385 6571
f) Country/Region & Address: Australia/UNSW Sydney NSW 2052

3. Name of contact person other than representative:

Dr. Ken Doust

4. Keywords (Maximum: 5 words)

Logistics, resilience, productivity, supply chain

5. Purpose and Mission of IRG:

The IRG first steps are to review the body of knowledge and to compile the current and forecast effects of climate and natural disasters on the freight supply chain flows and effectiveness in the East Asia and Oceania area. The research will then draw out from this review and focus attention into a number of case study areas. These case study areas will then be used to conceptualize resilience measures to mitigate both short and longer term effects and further conceptualize transformation changes that have potential to create lasting supply chain productivity improvements.

6. Target year for completion (Research period is suitable within four years.):

2022

7. Research plan:

(Oct, 2018 - Sep, 2019)

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Stage 1:

The IRG first steps are to review the body of knowledge and to compile the current and forecast effects of climate and natural disasters on the freight supply chain flows and effectiveness in the East Asia and Oceania area. Present in a symposium and a round table for discussion and enhancements to findings.

(Oct, 2019- Sep, 2020)

Stage 2:

The research will then draw out from the Stage 1 review and focus attention into a number of case study areas, initially in Australia, New Zealand and Japan. Utilize these case study areas to conceptualize resilience measures to mitigate both short and longer term effects of climate and natural disasters. Present in a symposium and a round table for discussion and enhancements to findings, inclusive of actors in the case study areas.

(Oct, 2020 - Sep, 2021)

Stage 3:

Conceptualize transformational changes that have potential to create lasting supply chain productivity improvements and initiate case study application of the initiatives. Present in a symposium and a round table for discussion and enhancements to findings, inclusive of actors in the case study areas.

(Oct. 2021 - Sep, 2022)

Stage 4:

Report back on the experience of attempting to implement initiatives from Stages 2 & 3 in the case study areas. Reflect on the barriers and enabling factors that come from this experience. Present in a symposium and a round table for discussion and enhancements to findings, inclusive of actors in the case study areas.

8. Research funds:

Source of research funds(*)	Approximate amount (US\$)
Northern Rivers NSW, Local Government and Agencies	130,000 initial case study of Northern Rivers region of eastern Australia
The Study wishes to apply for ICRA-A (ICRA for incubating research) to support stage 1; and stage 2 & 3(to complement the current research funding for a Northern Rivers Case Study).	10,000 (To be developed following discussion with Easts Secretariat.)

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*: (ex.) ICRA (Research grant of EASTS), Grants-in-aid for Scientific Research of Ministry of Education, Culture, Sports, Science and Technology (Japan), and etc..

All applications are to be delivered to:
Dr. Naohisa OKAMOTO, Secretary-General
Office of EASTS Secretary General
E-mail: irg@easts.info