2018 LRFI DATA VISUALIZATION COMPETITION
OPTIGRAM: MAKING DATA COME TO LIFE

Organised by Lloyd's Register Foundation Institute for the Public Understanding of Risk (LRFI), the inaugural LRFI Data Visualisation Competition is part of a series of activities aimed at developing creative ways to communicate data and information on risk. With better understanding of risk comes better decision-making, as the gap between perceived risks and actual risk (i.e. facts versus fear) is bridged.

Tell me more about the competition!

Risk is the effect of uncertainty on objectives[1] and this is applicable to all types of everyday decisions, such as lifestyle choices and its implications on health, adopting new technologies like autonomous vehicles and its impact on society, and the likelihood of primary school enrolment based on population figures.

The competition invites youths[2] (aged 15 to 35 years old) to submit proposals for a digital showpiece which visualises scientific data creatively to communicate risks, patterns and trends – e.g. how risk perceptions emerge and evolve. By melding art with scientific data, we aim to engage the audience meaningfully and help them understand their risk perceptions and risk management options. Use of real data, preferably real-time data, on real events (i.e. no artificial data) is required.

Through this competition, we hope to power our outreach efforts with the brightest and most creative minds. The winning entry will see the transformation of their proposal into a digital showpiece or tool which will be featured in the institute's outreach efforts.

What are the competition themes and topics?

Inspired by social media applications such as Instagram and Telegram, this year's data visualisation competition is entitled "OPTIGRAM: Making data come to life". The theme may be interpreted as using non-traditional data presentation methods and art to communicate data and risks. Proposals are to cover any of the following emerging trends and topics, with a focus on Asia:

1. Emerging technology
2. Nuclear decommissioning
3. Health and medical risks, and biomedical big data

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[1] Defined by the International Organisation for Standardisation
[2] Based on Singapore National Youth Council https://www.nyc.gov.sg/en/faqs

4. Cybersecurity

5. Food safety

6. Climate change

Additional themes or topics of significant interest to the public in the Asian region may be considered if the connection to risk and public understanding of risk is made clear.

Who is eligible to submit proposals?

The competition is open to all youths between 15 and 35 years old.

Participants may submit their proposals individually or in teams not exceeding three members.

What are the submission requirements?

All submissions must adhere to the requirements in Annex A or may be disqualified.

How about the panel of judges and prizes for the competition?

The qualifying submissions will be evaluated by a panel of judges comprising LRFI's Board of Directors and Dr Pablo Suarez, LRFI's Artist-in-Residence and Associate Director for Research and Innovation, Red Cross Red Crescent Climate Centre.

The panel will award two cash prizes. This is in addition to the funding provided for the production of the showpiece.
- 1st prize: S$1,000
- 2nd prize: S$800

How will my proposal be evaluated?

The submitted proposals will be evaluated on the following criteria:
1. Clear and concise description of the data sourcing and design processes (20%)
2. Demonstration of an innovative approach to convey risk through data and how it improves public understanding of risk (35%)
3. Originality and creativity of the showpiece design (25%)

4. Cost consideration for the production of the showpiece (10%)
5. Logistics of assembly and moving, and practicality and safety of the showpiece (10%)

What are the key milestones I should take note of?

1. Submission of competition proposals is by **5.00pm (Singapore time) on 30 September 2018**. Participants may submit multiple copies of their competition documents any time before 30 September 2018 but only the latest set of submission will be evaluated.
2. The panel of judges will deliberate on the submissions in October 2018. Winning entries will be announced at The Risk Quotient conference in Tokyo on 26 October 2018 and the winners will be notified.
3. The winner will work with LRFI to fine-tune and produce the showpiece in November and December 2018, with a view to complete production by the first week of January 2019.
4. The presentation of the prizes (Award Ceremony) will be in the week of 14 January 2019.

For more information on the submission requirements and queries, please refer to Annex A and the FAQs.

2018 LRFI DATA VISUALIZATION STUDENT COMPETITION
OPTIGRAM: MAKING DATA COME TO LIFE

SUBMISSION REQUIREMENTS

All submissions of proposals must adhere to the following or may be disqualified:

1. Each submission must include the following three documents:
    i. Completed competition entry form
    ii. Proposal for the data showpiece (maximum three pages, including citations or notes): Students are to address how risk is conveyed with their chosen set of open source data and statistics and how it improves understanding of risk. The proposal must include a description of what the showpiece will look like, including the resources required to get it up and running. The estimated total cost of producing the showpiece must not exceed S$5,000.
    iii. Sketches or visual drawings, with instructions or directions on how the audience will interact with the showpiece: Any sketches and visual drawings are to have at least 300 DPI. Alternative and additional modalities to present the showpiece through sketches, visual drawings (such as 3D print files), a small prototype, are welcome but not required.
2. Submissions must be in English and submitted through email to NUSLRFI@gmail.com in PDF format.
3. All text and images must be presented on A4 size pages and typed in single-line spacing, Times New Roman, font 12.
4. The maximum size of the entire submission is 10MB.

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FREQUENTLY ASKED QUESTIONS

1. **How much do I need to pay for the competition entry fee?**

   It's free! You do not need to pay any competition entry fee.

2. **Where can I find open source data?**

   The possibilities are endless so be creative! Just remember to cite your sources in the proposal.

   If you need some inspiration, you can consider the open source data from the following sites:

   - Singapore Department of Statistics - https://www.singstat.gov.sg/
   - Smart Nation Singapore - https://www.smartnation.sg/resources/open-data
   - World Health Organisation - http://www.who.int/en/
   - The World Bank - https://data.worldbank.org/topic/climate-change
   - Global Facility for Disaster Reduction an Recovery - https://www.gfdrr.org/en/publications?page=full

3. **What are some examples of data showpieces?**

   You can refer to this site for inspiration:

   - https://iq.intel.com/turning-data-visualization-art-7-artists-using-data-muse/

4. **Is this competition open to students only?**

   No, it is open to all youths between 15 to 35 years old.

5. **What if one of my team members is above 35 years old?**

   Sorry but that makes your team member ineligible for the competition.

6. What is plagiarism?

You may refer to this website for more information.

7. Can I email the organizer to check if my submission is complete?

No, it is your responsibility to ensure that the submitted proposal meets all the requirements.

8. Can I email the organizer to check if my submission has a chance at winning?

No but we are happy that you would consider us for an opinion.

9. When I win, do I need to pay for the production of the data showpiece?

No, the cost of producing the data showpiece will be covered by LRFI. We only need you to participate in the production process from November 2018 to January 2019 as the proposal is your brainchild!

10. Must I pick one of the six themes and topics listed under the theme?

You can pick any of the six. Additional themes or topics of significant interest to the public in the Asian region may be considered if the connection to risk and public understanding of risk is made clear.

11. I have a question. Who can help me?

Direct any questions regarding the competition to: jamie.foo@nus.edu.sg

12. I have completed the competition entry form and the proposal. Where can I submit these to?

You can email the complete set of submission documents to NUSLRFI@gmail.com

You will then receive an email notification to confirm that we have received your submission. If you do not receive that email notification within 3 working days, please email jamie.foo@nus.edu.sg to enquire.