研究実施責任者	プロジェクト名	期間	配分額(円)
看護学部・教授	マイノリティや社会的弱者の健康・生活情報の	D0 D4	500,000
十二 木下 真里 	把握・活用方法に関する研究	R3-R4	500, 000
	-誰も取り残さない社会の実現を目指して-		

研究概要

本研究は、在留外国人、高齢者、障がい者、路上生活者、LGBTQ、感染症キャリアなどマイノリティや社会的弱者の、健康状態や生活状況などの情報を、氏名や住所、マイナンバー、出身地などの個人情報と切り離してデータベースに記録・保存し、公的機関や支援関係者間で共有する、新しい仕組みの開発を目的とする。この新しい仕組みが実現すれば、個人情報利用の同意取得が困難な事情のある人々の実態把握が容易となり、持続可能な開発目標(SDGs)の共通理念「だれも取り残さない」の実現を通して、複数の SDG の実現に貢献できる。

研究では、個人情報の代わりに、一人ひとりに無償で配布する固有の QR コードによって個人を識別する。日本語でのコミュニケーションが十分でない外国人と ICT になじみのない高齢者に、固有の QR コードを配布して定期的に追跡を行い、何人の対象者がいつまで把握できるかを調査することによって、この仕組みの効果と実用可能性を検証するアクション・リサーチである。また、この調査で収集した個別のデータを自治体、支援団体と共有することにより、実際に活用できるかどうかを検証する。

研究成果

研究者らは、大規模災害時、迅速に人的被害の全体像を把握する COACHES と呼ばれる仕組みの開発を行っている。本研究では、在留外国人や高齢者などマイノリティや社会的弱者を対象に、個人の権利を守りながらどのように安全、効果的にこの仕組みを活用できるかを明らかにすることを目的とした。専用アプリケーションを用いてこの仕組みを説明し、意見や感想をFocus Group Discussion (FGD)で聞き取るという研究である。

高齢者調査については、COVID-19 第 6 波、 7 波および役場担当者の交代などを背景に、当初予定していた中山間部での同意取得が難航し、 2 か所の候補地いずれからも協力辞退があり、実現しなかった。一方で、太平洋沿岸部に位置する地区については、先方から協力の連絡があり、令和 4 年に住民を対象とした調査が実施できた。

外国人調査については、プロジェクト期間を通して情報収集に努め、各学部プロジェクトメンバーからの専門的情報提供をもとに検討を続けた。最終的に、市内の外国人が集まる飲食店での調査可能性を数か月にわたって検討したが、プロジェクト終了までに責任者への説明機会が得られず、実施を断念した。

本研究プロジェクトの取組みによる成果は以下の通り。

- ・ SDGs の基本理念「誰も取りのこさない」を災害救援において実現するために、災害時にすべての被災者の安否、健康状態情報収集する仕組みの有用性および今後の課題があきらかになったこと。
- ・ 地域特性による災害に対する備えや新しい技術に対する人々の受入れの違いに関する知 見。
- 研究成果の学際的、国際的な発信。
- ・良好な学部間協力が実現し、学際的連携の実績となったこと。

果 物 成

【論文発表 (査読あり)】

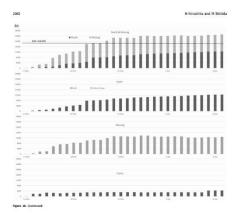
• M Kinoshita, M Shikida. (2022) Measuring Personal Damage in a Large-Scale Disaster: A Review of the Reports Published by the Japanese Fire and Disaster Management Agency on the Great East Japan Earthquake and Tsunami. Disaster Med Public Health Prep 16: 2056-2064. doi: https://doi.org/10.1017/dmp.2021.144



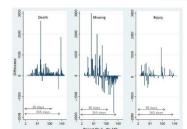
SDMPH ditions patients

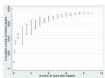
M Kinoshita and M Shikida

The sum of deaths and missing persons increased in 1 month (April 20, 2011; max. = 27 020) and suddrnly decreased as the



- A STATE OF STATE OF









legolimihooJanota/juhini.pdf. Accessed jure 11, 2020. 17. Five and Disaster Management Agency. 平点13年 (2011年) 東島地方大 平洋沖地震、保田大大震災、こいとて第160首の. Report on 2011 World Health Organization. Engl Intelligence on the Company of the 146 SUSTRANCE AND THE CORN LANGE | 1-36561-61-66, V, bladgean S. The Great East lapan combiquake disaster: a polyholished internative on health andex and richel activities. From ealth Sustant Messagement Agroup, 平男21年(2011年)東急地方太平洋 外間度(新年間), 2011 Toboko Fredit November 1991 デルタイン (Am 2015 Toboko Fredit November 1991 Fredit November

- CHE Program Unsear Machine Part II. Continuous anna Leature.

 1879-1878 (2019). 2010-1888 (2019). 2019 with the company of t

- contrigues des datases in de la descripción de
- | Ballebrane appear | Art | Ar

【学会発表】

- · Kinoshita, Mari, Nakai, Mikiko, Shimada, Ikuko. (2023) Challenges introducing a novel health assessment system in disaster-prone Japan: Community-Oriented Approach for Comprehensive Healthcare in Emergency Situations (COACHES). WADEM 2023 Killarney, Ireland.
- ・木下真里(2023) 一般看護有資格者の大規模災害時救援活動参加に必要な知識や技術情報に 関する考察. 第28回日本災害医学会. P3-3. 盛岡.

【講演】

・木下真里. (2022) 災害時にすべての被災者の安否と健康状態を把握し共有する仕組み COACHES (コーチーズ) の提案. 土佐まるごとビジネスアカデミー(MBA)専科「シーズ・研究 内容紹介」第1回. オンライン講座.

https://www.kocopla.jp/tosamba/course_detail.html?course_id=39

【出版物】

Kinoshita Mari. (2023) Research for Community Oriented Approach for Comprehensive Healthcare in Emergency Situations (COACHES). Impact, Vol. 2023, Number 2, April 2023. p. 09-11(3)





Helping Japanese communities affected by natural disasters

A team based at the University of Koch in Jajaon is conducting research that seeks to develop a Community Oriented Approach for Comprehensive Healthcane in Emergency Stutiations (COACHES The findings will help to provide more efficient and optimised relief to those affected by emergencies and disasters:

this is to, including the well-stream, from jupo behavioring to the Asian miscondi climate region bit stream with theme to per care of jupon that man being content of jupon the stream with theme to per care of jupon that man being content of jupon the stream of jupo

handling the impacts of disasters and the emergencies that are a direct result from

It is with this in mind that a research team with faculty members from different fetifieds at two universities has embarked on its current studies. The team is fet by Professor Mar Kinchtia, who has had comprose a system known as the Community Oriented Approach for Comprehensive Healthcare in Emergency Staustons (COACHES, it is hoped that through research and development, COACHES will

Knoshka describes how currently netter public agencies no relief workers start organising emergency relief with readtive and the public start of the start distance differed population. She sups they usually count on an estimation based on data collected in the past or unreliable information reported by non-professionals through a variety of sources, and they do not attempt to fully enumerate the affected population as they do not have proper measures available. There are attempts to collect information by self-reporting systems. but they may fail some of the argent needs because some as ignorant of largenting that conditions to surgent ends because some as ignorant of sensities in the conditions to surgently. efforts give priority to larger, visible and the closest populations. The COACHES project is designed to detect hidden or missed data and provide a whole picture of the situation

DATA WITHOUT

Put simply, COACHES works by providing information to relief personnel that is vital in an emergency situation. Importantly, a provides data on where the affected people are located, but also how they are doing at the present time. This enables the rescue and relief teams to determine a list of

fully developed it will provide a muchneeded solution. There are some technical challenges that need to be overcome to make the system (easible and cost-effective, specifically damage to communication infrastructure and power supply disruption. The power supply can be managely can be found by batteries and generators, but for

The power supply can be manageable by batteries and generators, but for the communication networks, we need collaboration with partners that are capable of providing communication technologies during disasters and emergency situations outlines. Knowther, Another challenge is how to find volunteers in the disaster-

This anonymous system reduces the time and risks of dat collection, thereby providing peace of mind to individuals and encouraging them to use the system

pionities in terms of who requires attention urgently and those who might be able to wait a little longer. The system records everyone's data so that it can be viewed later and analysed, this facilitates a process of continuous improvement, where responses can be fine-tuned and made better for the nest incident," observes Kinositza. The system directly collects data from all affected individuals on an anonymous basis.

check the beath concilions of floors amount drom, including flementales, the families, regibbours and asyone titigs mere on the way to the receivable reliable to to the reliable to the receivable reliable to the receivable reliable to the reliable reliable to the receivable reliable to the reliable reliable reliable to the reliable reliable to the reliable reliable to the reliable reliable to the reliable reliabl

TOGETHER EVERYONE ACHIEVES MO As it stands, the system is currently still in the planning phase and therefore cannot be tested in a real-life situation. However, fected community in an early phase of an nergency, especially given that the system availy relies on volunteers. The essential et of the system does not run and cover e whole area without volunteers for the

Despite these challenges, Kinoshita and the team are confident that with the help of members of society and various collaborative efforts they will soon be able to overcome the present hurdles and deploy a system that helps individuals and communities who are affected by disasters. Indeed, they believe that the public sector meeds to be involved from an early stage.



it, so success is expected to snowball future.

Project Insights

FUNDING

• JSPS KAKENHI Grant Numb

- JSPS KAKENHI Grant Number JP20K1132 - R1 (2019-2021) University of Kochi Strategic Research Promotion Project (Theme 3) - R3 (2021-2023) University of Kochi Strategic Research Promotion Project

OLLABORATORS Kochi University of Technology Nakatosa Town, Kochi, Japan ELP Co., Ltd.

TEAM MEMBERS University of Kochi – M Nakai, I Shimada, M Mukai, Y Kouchi Kochi University of Technology – M Shikida

Professor Mari Kinoshi

T: +81 88 847 8700 E: kinoshita@cc.u-kochi.ac.jp W: https://www.u-kochi.ac.jp/site/ research/kinoshita.mari.html

and international nursing. She advances programmes and esearch that improve quality of care in complex emergencies and relief of affected populations in the community. Knoshta's research interests include rapid health assessment, healthcare risks in disasters refugee healthcare and community level infectious disease care.

> 高知県立大学 University of Kochi





www.impact.pub 1

