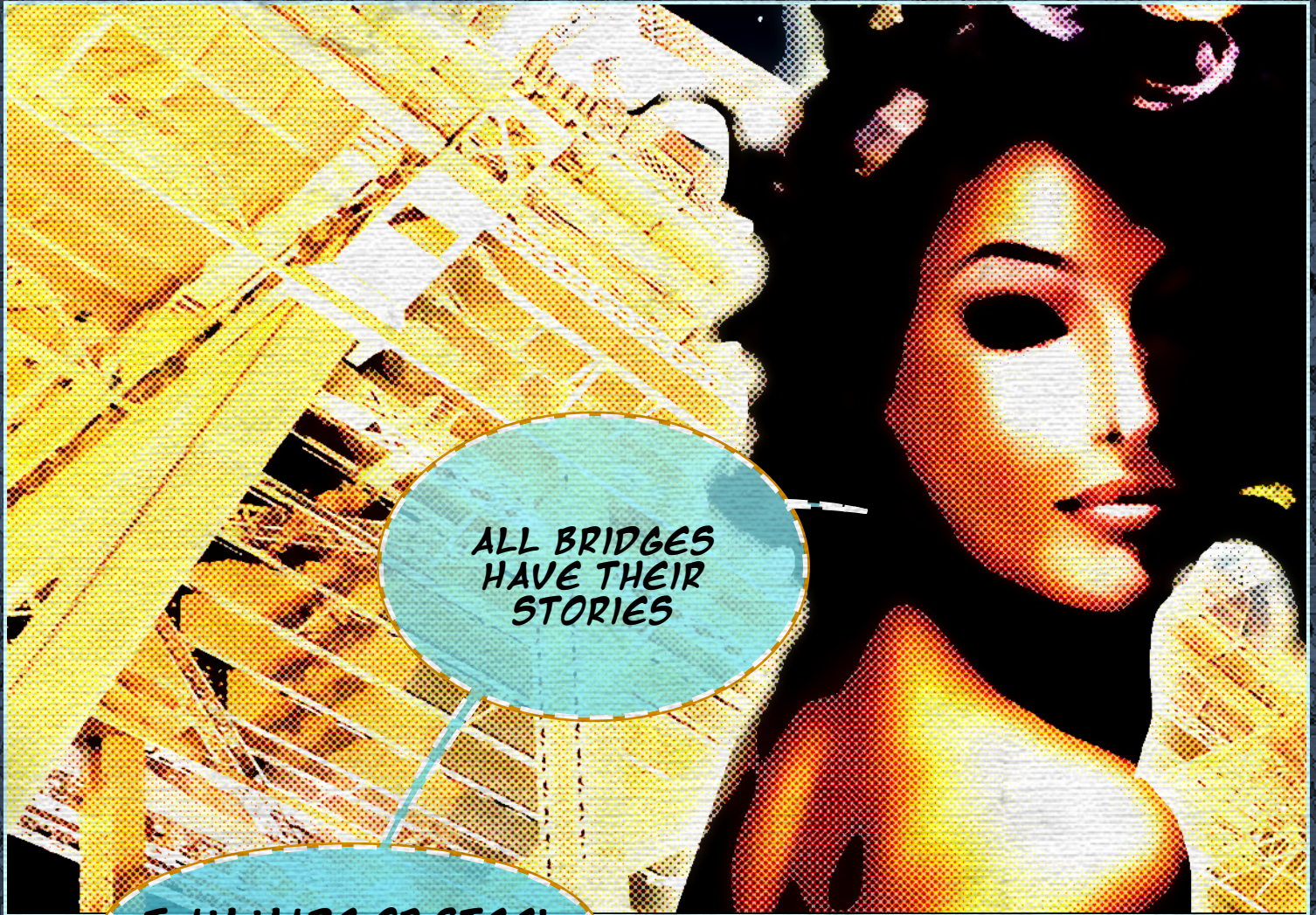


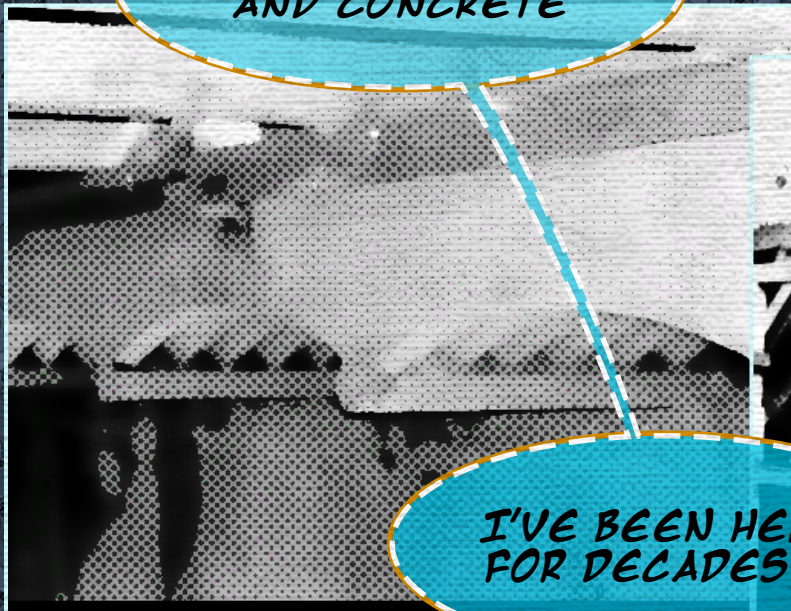
# STRUCTURAL HEALTH MONITORING

A NICTA IMPACT JAM



ALL BRIDGES  
HAVE THEIR  
STORIES

I AM MADE OF STEEL  
AND CONCRETE



I'VE BEEN HERE  
FOR DECADES...





I LOOK AFTER A LOT  
OF PEOPLE

AND A LOT OF  
PEOPLE LOOK  
AFTER ME

AND WHEN  
I NEED HELP..

**CRACK**



...THEY CAN  
HEAR ME

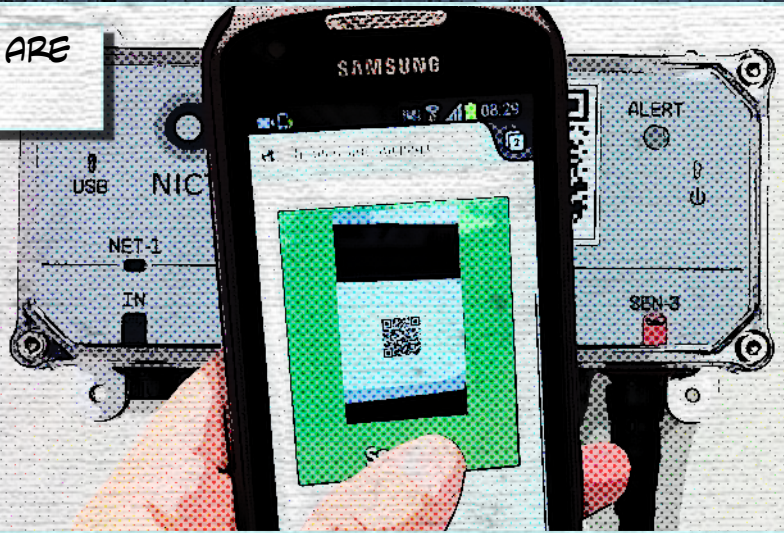
YES!

OUR BRIDGE HAS A VOICE WITH  
"STRUCTURAL HEALTH MONITORING"





SENSORS THAT MEASURE VIBRATION ARE  
INSTALLED UNDER EACH JOINT...



A SIMPLE SCAN WITH THE MOBILE VERSION OF THE  
SOFTWARE CAPTURES THE SENSOR AND LOCATION  
DETAILS...

**TA-DAAA!**

... AND WE CAN INSTANTLY SEE THE  
JOINT AND IN A SHORT AMOUNT OF  
TIME, IT'S HEALTH SCORE.

THE SYSTEM **SENDS** US  
TEXT OR EMAIL **ALERTS** WHEN  
SOMETHING ISN'T SCORING WELL

WHEN WE INSPECT  
A JOINT, WE CAN  
**SEND PHOTOS AND NOTES**  
DIRECTLY BACK INTO  
THE SYSTEM.

BY LISTENING TO THE BRIDGE,  
WE CAN PLAN AND PERFORM  
**PREVENTION BASED  
MAINTENANCE.**

IT'S NO LONGER  
CONDITION BASED!







JUST ONE OF MANY EPISODES FROM  
THE **STRUCTURAL HEALTH MONITORING** STORY

# STRUCTURAL HEALTH MONITORING

## WHAT'S A NICTA IMPACT JAM?

IT'S WHAT HAPPENS WHEN AWESOME RESEARCH, SOFTWARE ENGINEERS, USER EXPERIENCE AND DATA VISUALISATION MINDS WORK DIRECTLY WITH AN EQUALLY AWESOME CLIENT TO MAKE IMPACT.

**PROJECT:** STRUCTURAL HEALTH MONITORING

**PROJECT TEAM:** PETER RUNCIE, CLINTON FREEMAN, SAMIR MUSTAPHA, KHOA NGUYEN, SERGE LICHMAN, ROD BERRIMAN, THIERRY RAKOTOARIVELO, HILARY CINIS

**COMIC AUTHOR:** HILARY CINIS, ETD/UX