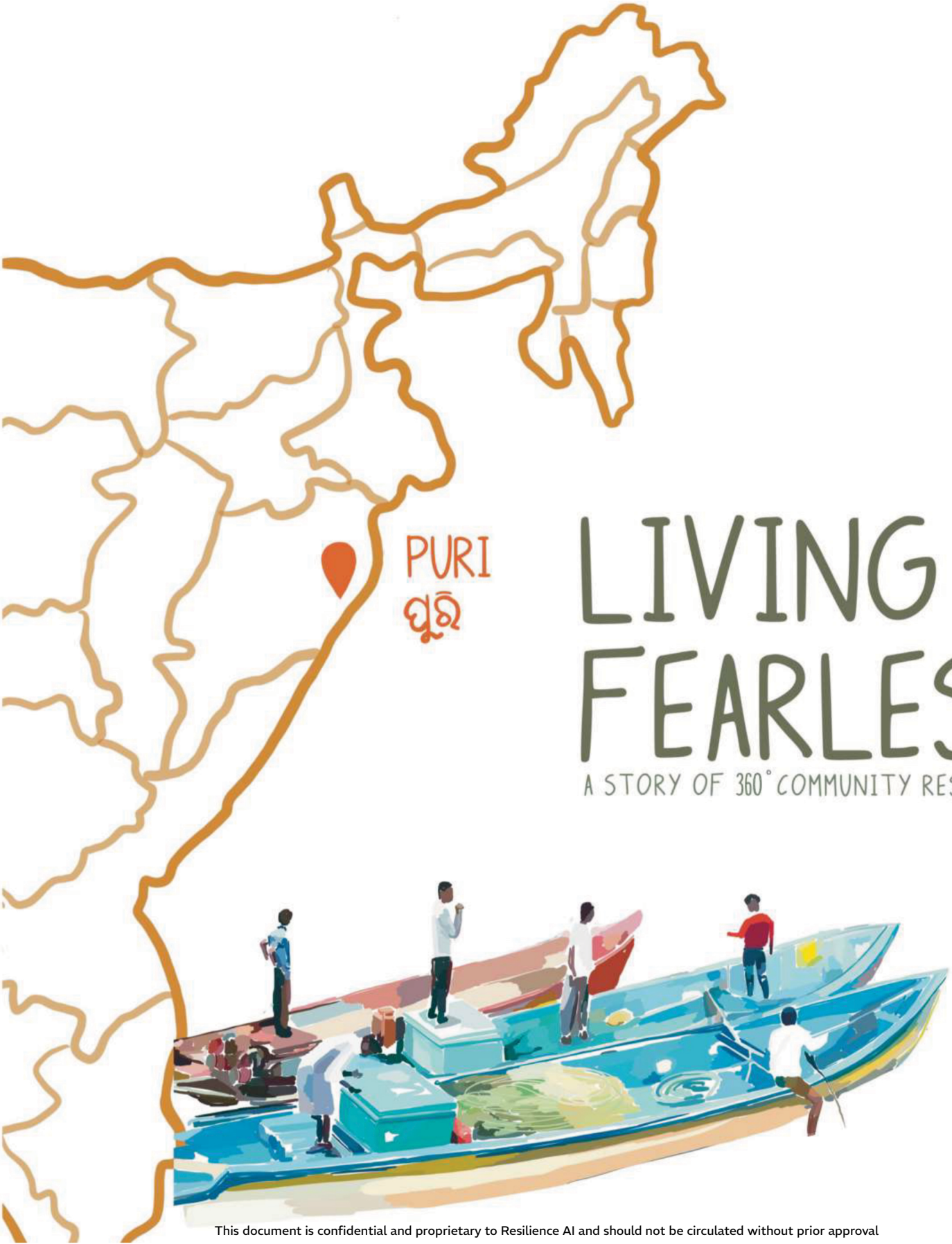


# LIVING FEARLESS

## A STORY OF 360° COMMUNITY RESILIENCE

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OUR MISSION IS TO REVOLUTIONIZE DISASTER RISK ASSESSMENT AND PREPAREDNESS USING CUTTING-EDGE AI TECHNOLOGY, EXEMPLIFIED BY OUR FLAGSHIP PRODUCT, RESSOLV. OUR AI TECHNOLOGY HARNESSES THE POWER OF DATA, GEOSPATIAL ANALYSIS, AND MACHINE LEARNING TO PROVIDE HYPER-LOCALIZED RISK ASSESSMENTS, ENSURING THAT COMMUNITIES ARE NOT JUST INFORMED BUT EMPOWERED. AS WE MOVE FORWARD, OUR INTENT IS CLEAR TO HARNESS TECHNOLOGY FOR THE BENEFIT OF SOCIETY AND SAFEGUARD THE WORLD'S VULNERABLE COMMUNITIES FROM THE GROWING THREAT OF CLIMATE-INDUCED DISASTERS.

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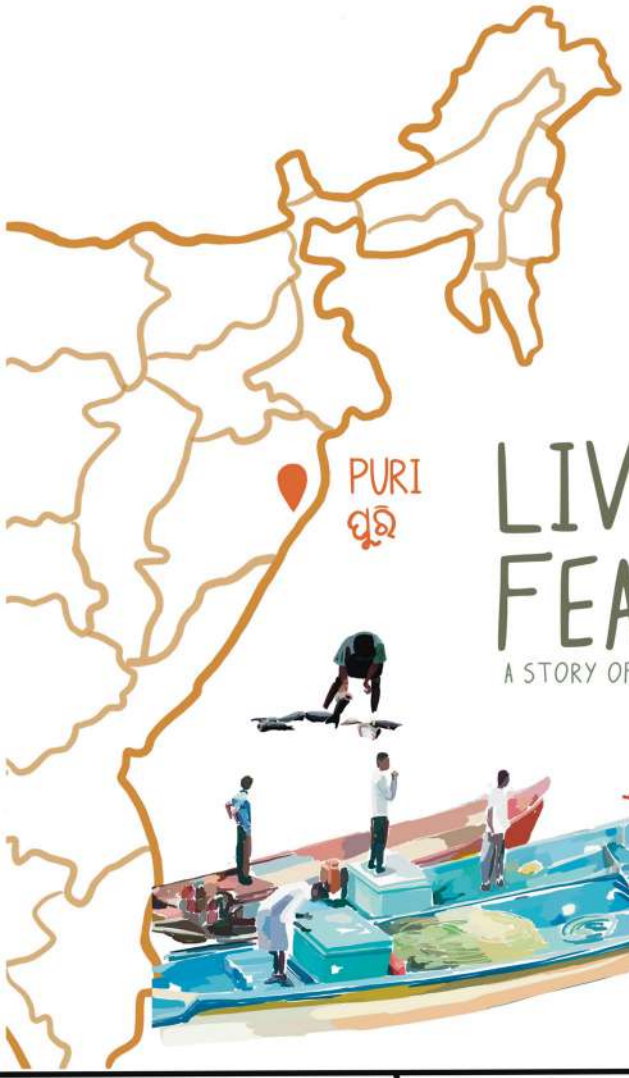


# LIVING FEARLESS

## A STORY OF COMMUNITY RESILIENCE

PURI FACES CYCLONES EVERY YEAR

AN AFTERNOON IN PENTHAKATA, PURI

## PRE-CYCLONE WARNING ⚠ in 72 hours

WHAT TO DO:

1. FIX DOORS WINDOWS AND WATER LEAKAGES
2. TIGHTEN ROOF JOINTS IN CASE OF SLOPING ROOFS
3. TRIM OFF BRANCHES FROM NEARBY TREES

BARSHA AND HER DAUGHTER RIYA ARE HAVING LUNCH AND SUDDENLY THEIR PHONE BEEPS...

BETA, A MESSAGE SAYS THERES'S A CYCLONE COMING IN THREE DAYS.

OH NO! MY FRIEND DOESN'T HAVE A PHONE HOW WILL SHE KNOW?

VOLUNTEER DIDI WILL INFORM HER FAMILY.

Knock Knock

MEANWHILE THE VOLUNTEER STEPS IN TO INFORM THEM ABOUT THE UPCOMING CYCLONE ...

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WAIT, HOW DID YOU BOTH GET THIS INFORMATION?

OKAY! I ONLY HAVE 5 MINS TO EXPLAIN...

IT'S THROUGH AN INITIATIVE CALLED ResSolv™

IT MAPS THE NATURAL FEATURES OF AN AREA TO GIVE US SPECIFIC ACTIONS TO DEAL WITH A DISASTER

## GEOGRAPHIC VULNERABILITY

TYPE OF HAZARD — PROXIMITY TO RIVER — SLOPE

## AI BASED ROOF CLASSIFICATION

BLUE TARPAULIN SHEETS COVERING DAMAGE

LIGHT GREY SHEET ROOFS ABESTOS OR CEMENT

DAMAGED ROOF

RED CGI ROOFS

## HYPER LOCAL RISK SCORING

GEOGRAPHICAL FACTORS

ROOF TYPE CLASSIFICATION

RISK SCORING

WOAH! THAT WAS A LOT, I DIDN'T UNDERSTAND MUCH..

RIYA, VOLUNTEER DIDI HAS TO WORK. LET HER GO!

IT'S OKAY, AUNTIE. KID, DONT WORRY YOU'LL GET TO LEARN ALL THIS DURING NEXT WEEK'S CLIMATE LAB!

NOW I HAVE TO INFORM OTHERS ABOUT THE CYCLONE. BYE! STAY SAFE.

CHALO! WE'VE LOTS TO DO. LET'S PREPARE FOR THE CYCLONE.

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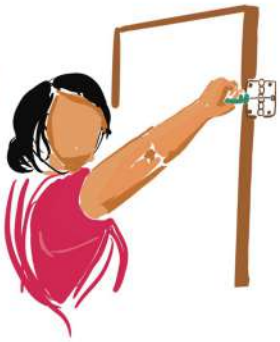
AS THEY SECURE THEIR HOME, ARRIVAL OF THE CYCLONE COMES CLOSER...



BARSHA FOLLOWS THE STEPS AS PER THE 72 HOUR CYCLONE INSTRUCTIONS

## CYCLONE ALERT in 48 hr

WHAT TO DO:
1. ALERT AUTHORITIES ABOUT ANY BROKEN ELECTRIC WIRES NEARBY
2. AVOID GOING NEAR THE SEA/OCEAN
3. PREPARE EMERGENCY SAFETY KIT

## CYCLONE WARNING in 24 hr

WHAT TO DO:
1. BOARD UP GLASS WINDOWS
2. ANCHOR ANYTHING THAT CAN FLY OFF
3. STORE ENOUGH FOOD AND WATER

## LANDFALL OUTLOOK in 12 hours

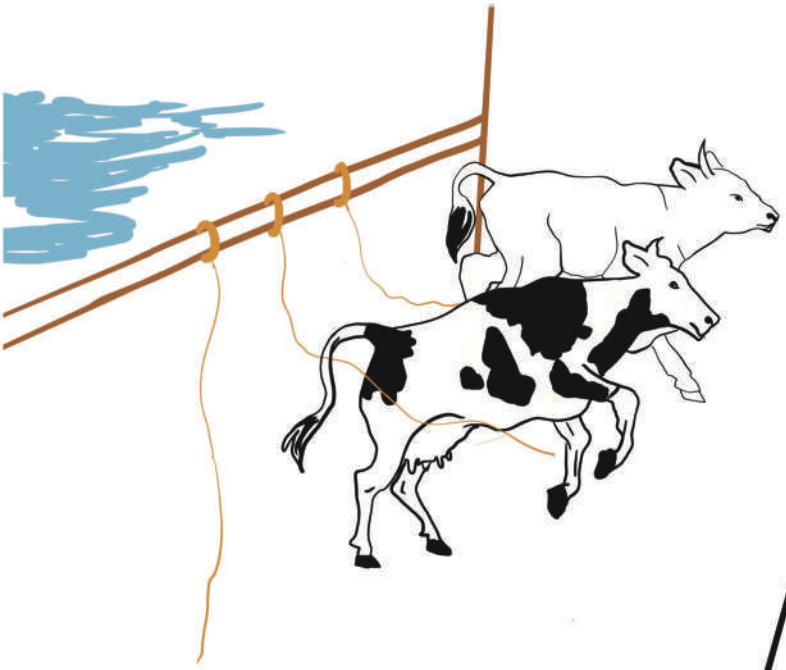
EVACUATE ASAP

Take COVID precautions

CYCLONE ARRIVES...

BARSHA AND RIYA WAIT IT OUT IN THE CYCLONE SHELTER

AFTER THE CYCLONE, EVEN THOUGH BARSHA AND RIYA WERE SAFE, THEY LOST THEIR TWO COWS...



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THE COWS WERE THEIR MAIN SOURCE OF LIVELIHOOD

OH NO! WHAT DO WE DO NOW?

I'LL RECORD IT IN MY PHONE.

VOLUNTEER DIDI TOLD ME THAT I CAN JUST SPEAK INTO MY PHONE ABOUT OUR LOSS ON A PLATFORM CALLED 'AAKSHVI'.

HOW WOULD THAT WORK?

LOSS IS RECORDED THROUGH VOICE NOTES IN OUR NATIVE LANGUAGE

AI TRANSLATES THIS TO THE ACTUAL LOSS INCURRED

WE GET COMPENSATED AS PER OUR NEED

GETS STORED IN PERSONAL E-WALLETS

AN AREA PROFILE OF ALL LOSSES IS PREPARED ON THE LOSS PLATFORM

GOVT. GETS ACCESS TO THE DATA

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THEY RETURN AND GET BACK TO THEIR LIVES...

BUT... RIYA'S CURIOSITY DOESN'T END HERE

BARSHA QUICKLY RESUMES HER WORK AND ALSO HELPS OTHER PEOPLE IN NEED

SHE JOINS THE COMMUNITY CLIMATE LAB AND LEARNS ALL ABOUT WHAT AFFECTS HER COMMUNITY AND HOW TO ADDRESS IT...

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"IT'S USEFUL TO KNOW THAT A CYCLONE IS COMING.
BUT, IT'D BE SO MUCH MORE USEFUL TO KNOW HOW THIS
CYCLONE WOULD AFFECT MY HOME."

SATYAVATI, WHO BELONGS TO A FISHING COMMUNITY IN PENTHAKATA (PURI), RUNS A MAKESHIFT FOOD STALL. DURING CYCLONE NIVAR (2020), HER HOUSE AND HER FOOD STALL WERE BOTH DESTROYED. THE DESTRUCTION OF THE STALL HIT THE HARDEST AS IT WAS HER PRIMARY SOURCE OF INCOME.

DURING CYCLONE YAAS (2021), HOWEVER, IT WAS A DIFFERENT STORY. THE RESSOLV AI MODEL WAS RUN BEFORE THE CYCLONE AND THE RISK INFORMATION WAS RECEIVED. USING THE RISK MAPS, THE VULNERABLE AREAS WERE IDENTIED AND CYCLONE ADVISORIES IN ODIA AND TELUGU WERE PREPARED ACCORDINGLY.

THE ADVISORIES WERE SENT TO 1000+ FAMILIES PENTHAKATA. LIKE MANY IN HER COMMUNITY, SATYAVATI ALSO RECEIVED ADVISORIES FROM RESSOLV WITH ACTION POINTS A DAY BEFORE THE CYCLONE AND WAS ABLE TO SECURE HER BELONGINGS BEFOREHAND. THE ASSETS IN HER STALL WERE SHIFTED TO A NEIGHBOURING HOUSE, WHICH WAS STURDIER THAN HER OWN HOUSE. THIS WAY, SHE WAS ABLE TO GET BACK ON HER FEET IMMEDIATELY AFTER THE CYCLONE.

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