



TRAUMATIC INJURY

FACTS AND FIGURES

SYMPTOMS INCLUDE¹

PAIN

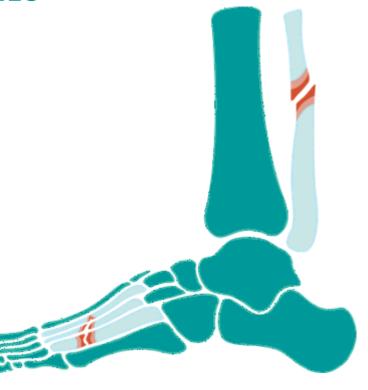
SWELLING

BRUISING

BLEEDING OR HEMORRHAGE

DEFORMITY

REDUCED MOBILITY



RISK FACTORS²

- Falls
- Road traffic collision
- Violent crime
- Child abuse

\$4.2 Trillion

Economic cost of fatal and nonfatal injuries in the US in 2019³



Injuries and violence are responsible for an estimated 10% of all years lived with disability4

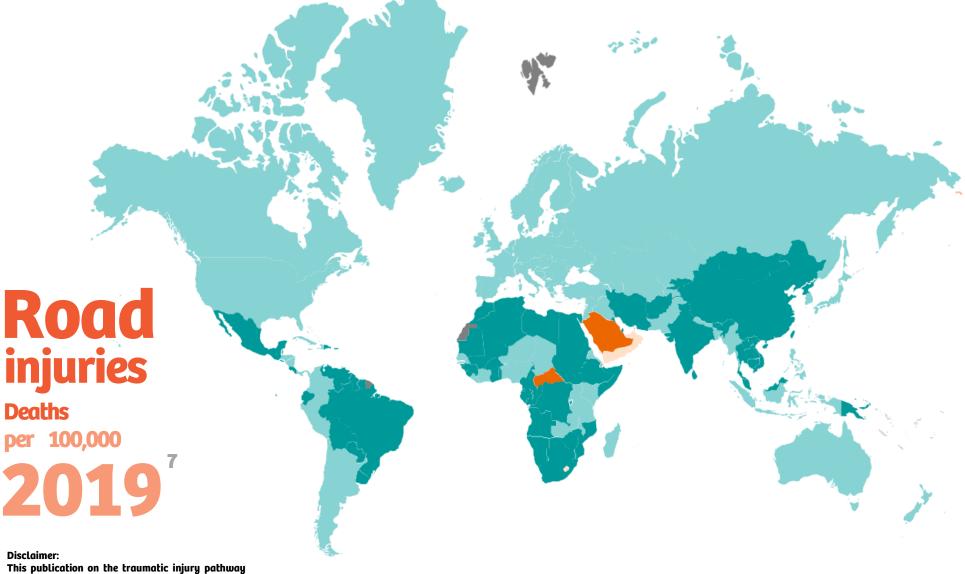
Globally, 1.3 million people are killed

by traffic crash every year⁵

Traumatic injuries account for over **41 million** emergency visits in the US each year⁶

Road traffic injury death rates⁵

- Highest in the African region
- Lowest in the European region



3 to 15

16 to 35

This publication on the traumatic injury pathway framework was updated on 29.09.2022. It cannot be taken as a recommendation for the readers, especially not as a guideline for treatment, and it is not a medical document. There is no guarantee for completeness or global correctness, the various pain points, solutions, and statistical data are examples only. Sources are multiple, such as public statistics, expert opinions, open innovation workshops, research, own data and many more (see references).

The products and features mentioned may not be available in all countries and their future availability cannot be guaranteed. Some products mentioned are planned and under development.

Health Grades. (2020). Injury. Retrieved September 26, 2022, from https://www.healthgrades.com/right-care/injuries-and-wounds/injury
Traumatic injury risk factors | PLOS ONE. Journals.plos.org. (2020). Retrieved September 26, 2022, from https://journals.plos.org/plosone/browse/traumatic_injury_risk_factors
Peterson C, Miller GF, Barnett SB, Florence C. Economic Cost of Injury — United States, 2019. MMWR Morb Mortal Wkly Rep 2021;70:1655–1659. DOI: https://dx.doi.org/10.15585/mmwr.mm7048a1external

Peterson C, Miller GF, Barnett SB, Florence C. Economic Cost of Injury — United States, 2019. MMWR Morb Mortal Wkly Rep 2021;70:1655–1659. DOI: http://dx.doi.org/10.15585/mmwicon

World Health Organization (2021) Injuries and violence Retrieved Sentember 26, 2022 from https://www.who.int/neurs.com/fact-cheate/detail/injuries-and-violence

World Health Organization. (2022) Road Traffic Injuries. Retrieved September 26, 2022, from https://www.who.int/news-room/fact-sheets/detail/road-traffic-injuries

The Conversation. (2019). How traumatic injury has become a health care crisis. Retrieved September 26, 2022, from https://theconversation.com/how-traumatic-injury-has-become-a-health-care-crisis-

> 55

The Conversation. (2019). How traumatic injury has become a health care crisis. Retrieved September 26, 2022, from https://theconversation.com/how-traumatic-injury-has-become-a-health-care-crisis-116250 Institute for Health Metrics and Evaluation. (2019). Road traffic Mortality per 100,000 people in 2019, both sexes, all ages. Retrieved September 26, 2022, from https://vizhub.healthdata.org/qbd-compa Institute for Health Metrics and Evaluation. (2019). Road traffic Mortality per 100,000 people in 2019, both sexes, all ages. Retrieved September 26, 2022, from https://vizhub.healthdata.org/qbd-compa

Website: https://www.siemens-healthineers.com/careers/innovation-think-tank

No data available

TRAUMATIC INJURY

Evaluates and diagnoses

devices and systems to

diagnose traumatic injury

patients precisely and

effectively.

STAKEHOLDERS

notified about the patient

and manages the patient

Disease pathway analysis with painpoints and solution examples

The patient undergoes

treatment for the injuries

suffered.

Plans and performs the

surgery based on the patient

4 TREATMENT

STAKEHOLDERS

Decides the course of

olytrauma patients.

appropriate approach.^{20,21,22}

oducts is often scarce.

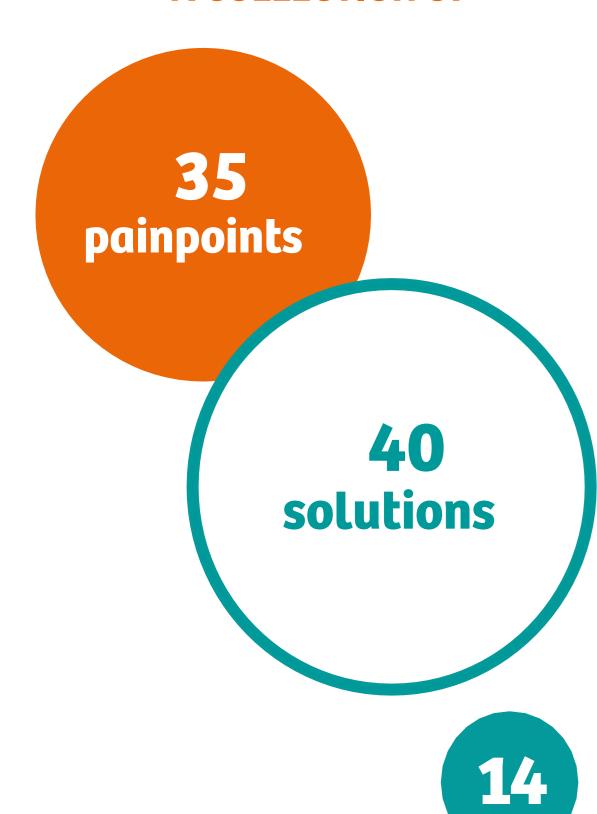
SOLUTION

Process innovation



These solutions were proposed based on AI, IoMT, AR/VR, biosensors, nanorobotics and smart wearable technologies

THROUGH THIS CAREPLAN WE **HIGHLIGHT DATA FROM A COLLECTION OF**



connected to

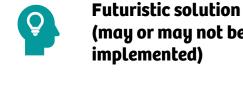
different stakeholders

Solution categories



Existing in healthcare

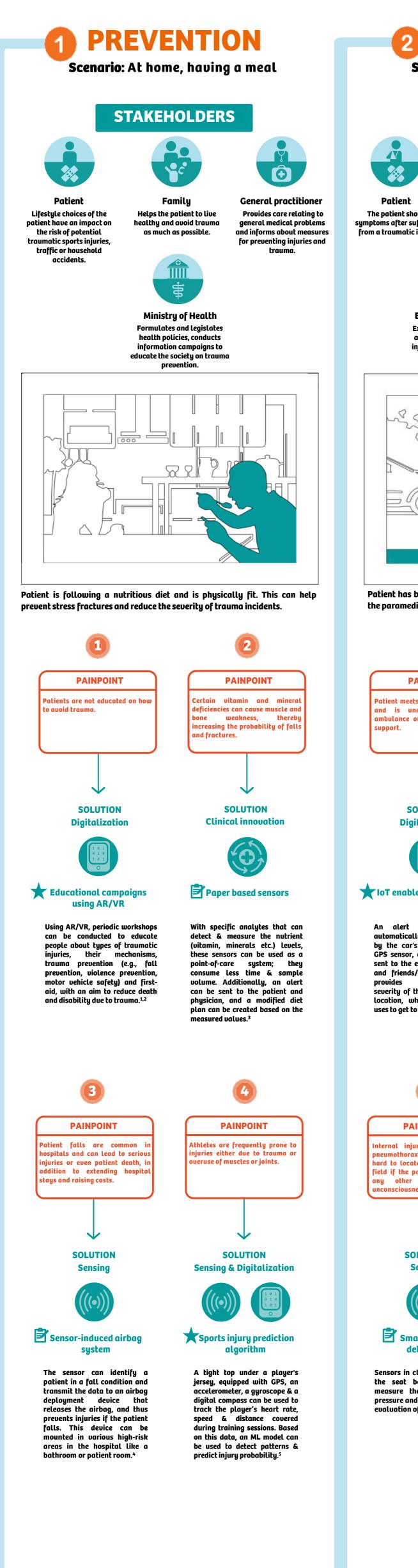


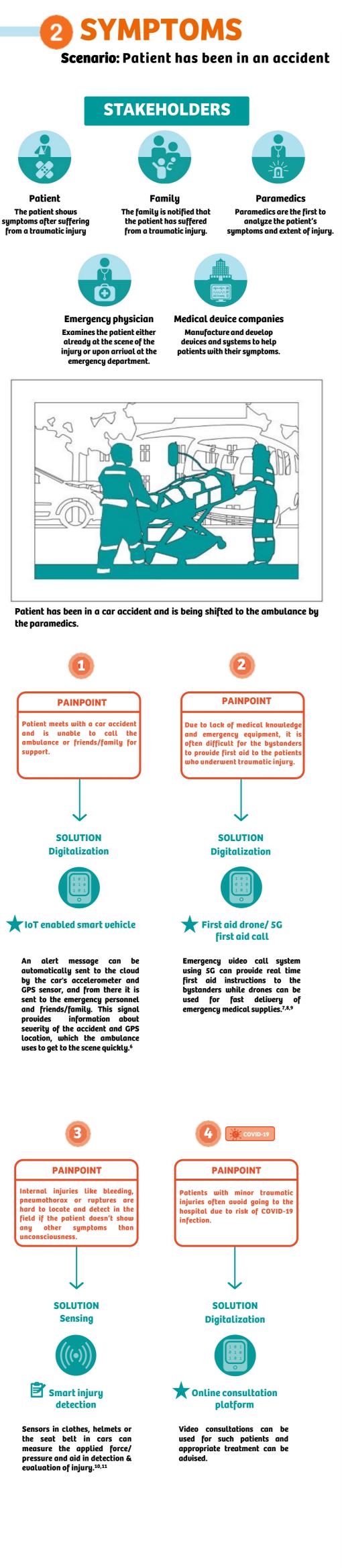


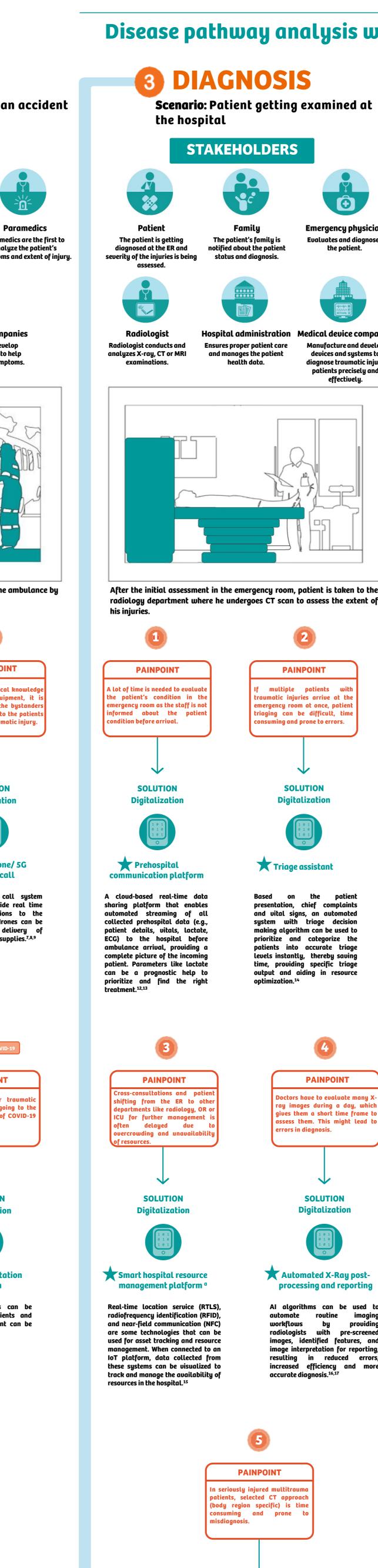
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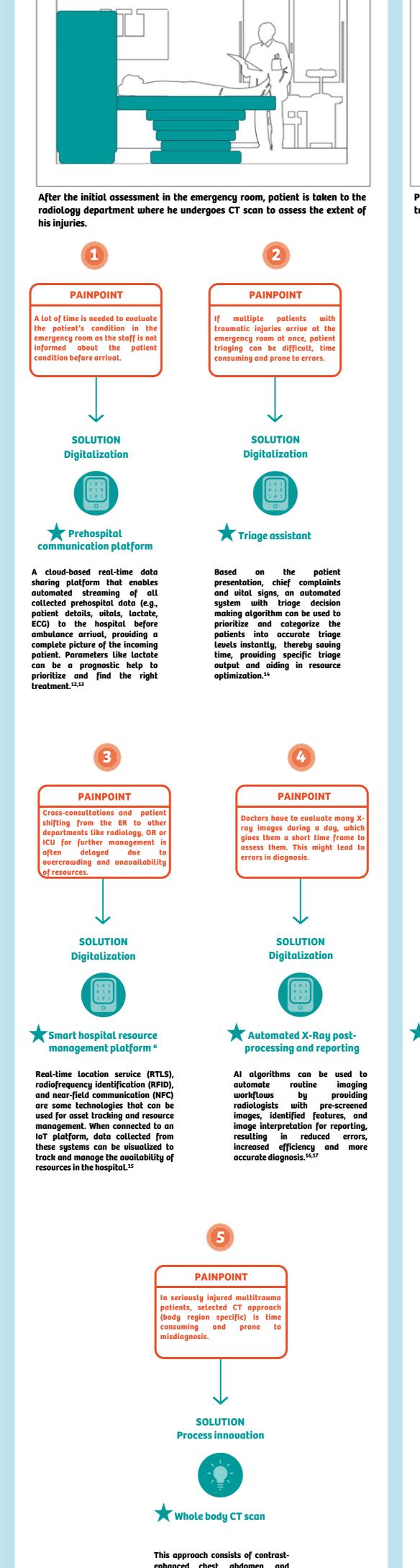
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aRTLS to locate patients and staff (SHS): This service is under development and not commercially available. Its future availability cannot be ensured.





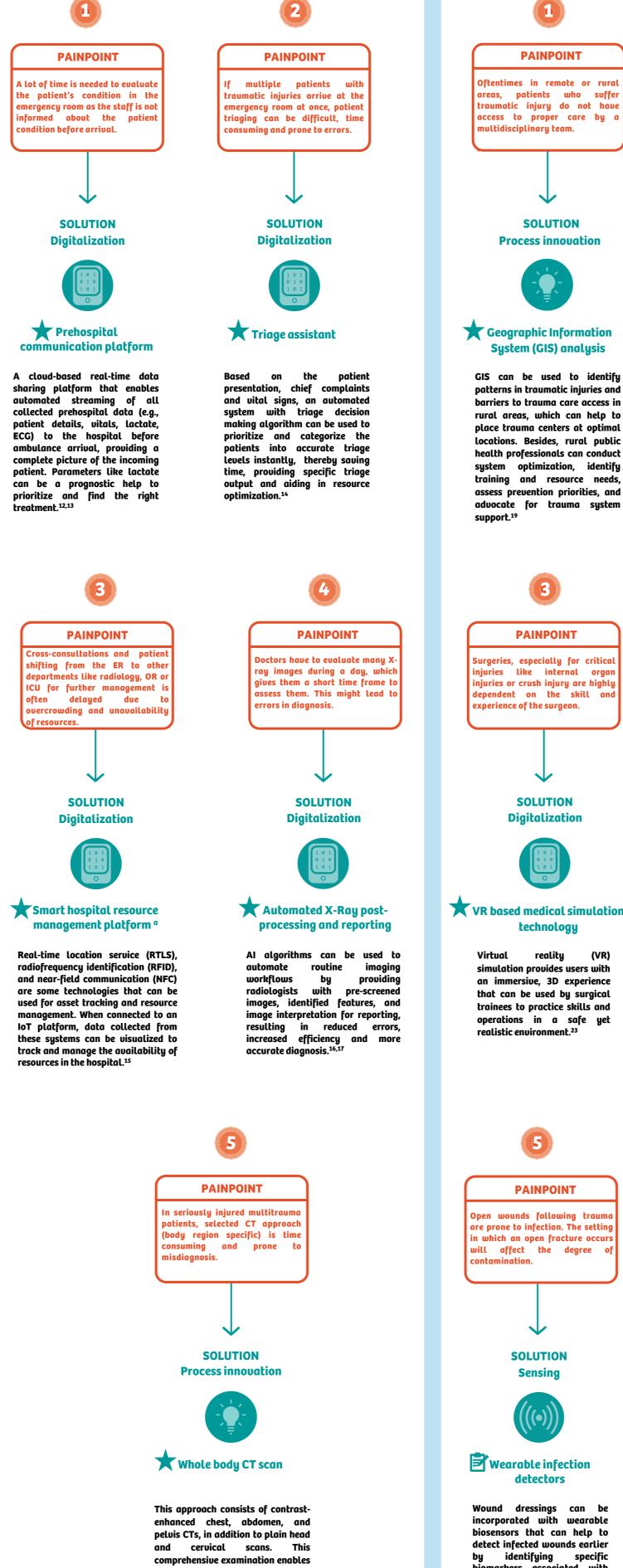


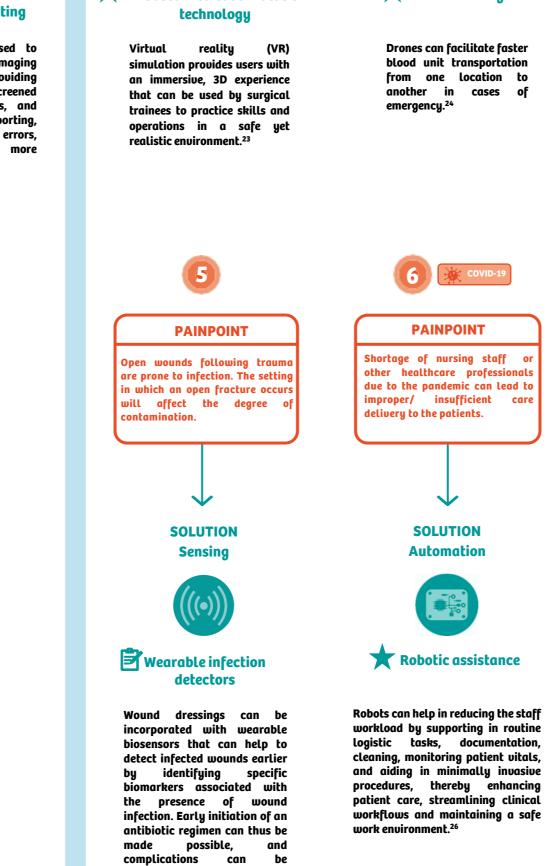


a quick and accurate diagnosis that

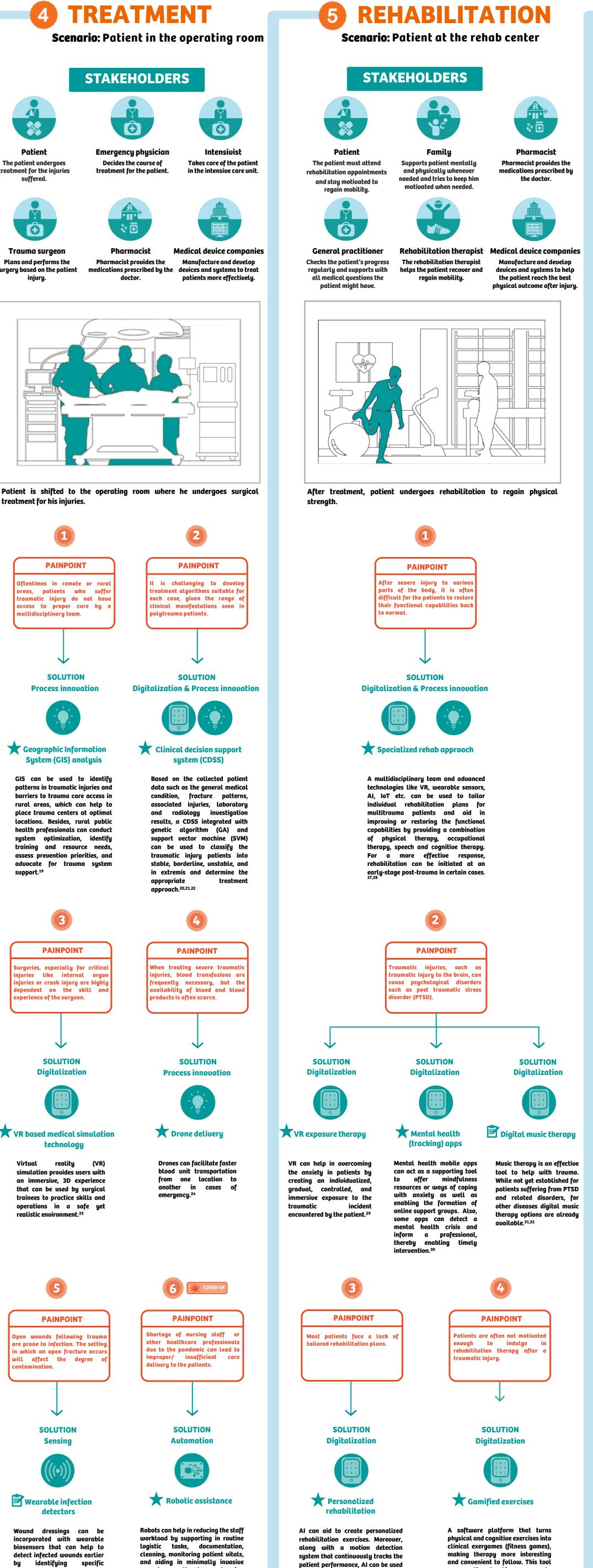
supports immediate therapy

relevant decisions.18





prevented.25



uses motion tracking sensors to

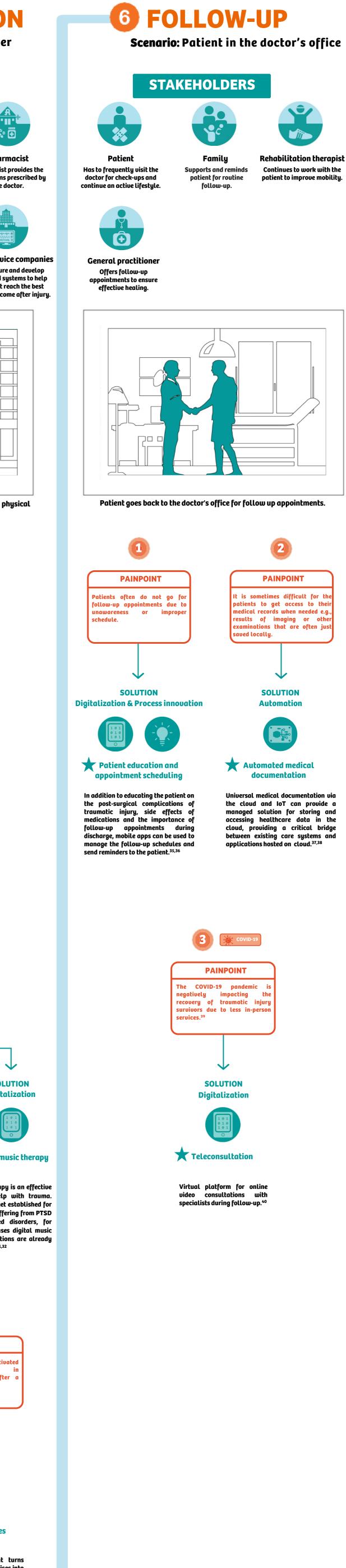
engage patients in their therapy,

while assessing and reporting

patient compliance.34

to update the exercise regime

accordingly.³³



aved locally.

PAINPOINT

SOLUTION

