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Digital society
Higher level
Paper 3 – source booklet

13 May 2024

Zone A morning | **Zone B** morning | **Zone C** morning

1 hour 15 minutes

Instructions to candidates

- Do not open this booklet until instructed to do so.
- This booklet contains the sources required for digital society higher level paper 3.

Source A

Ren Valley is a rural area in Brazil with a population of approximately 1000 people. Its main industry is farming.

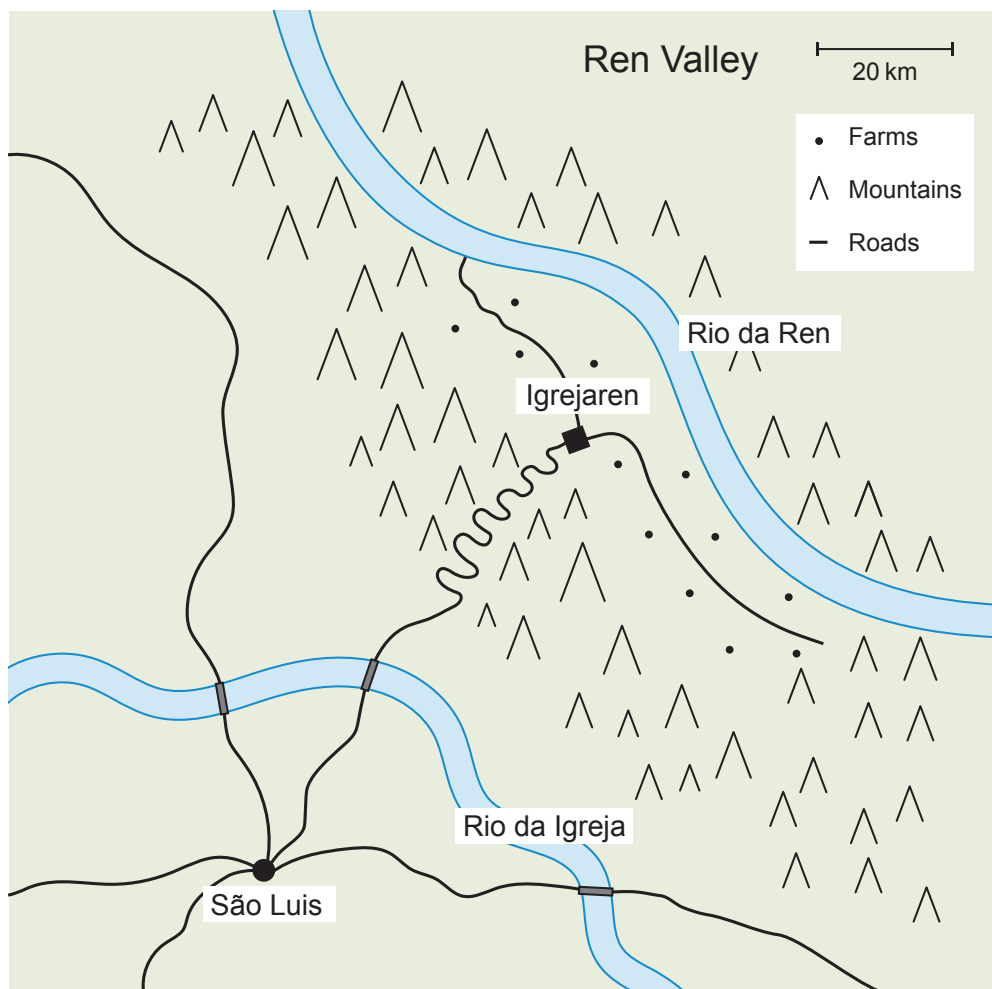
In recent years, there have been many injuries caused by working with animals and/or farm machinery. Many farmers also work alone.

The only road in and out of the valley is narrow and crosses a range of mountains (see **Figure 1**). Ren Valley also has limited access to power and can suffer from power outages.

There is a small hall in the village of Igrejaren that is used for community events.

São Luis, with a population 100 000, is the nearest city to Ren Valley. There is a small hospital in São Luis.

Figure 1: Ren Valley



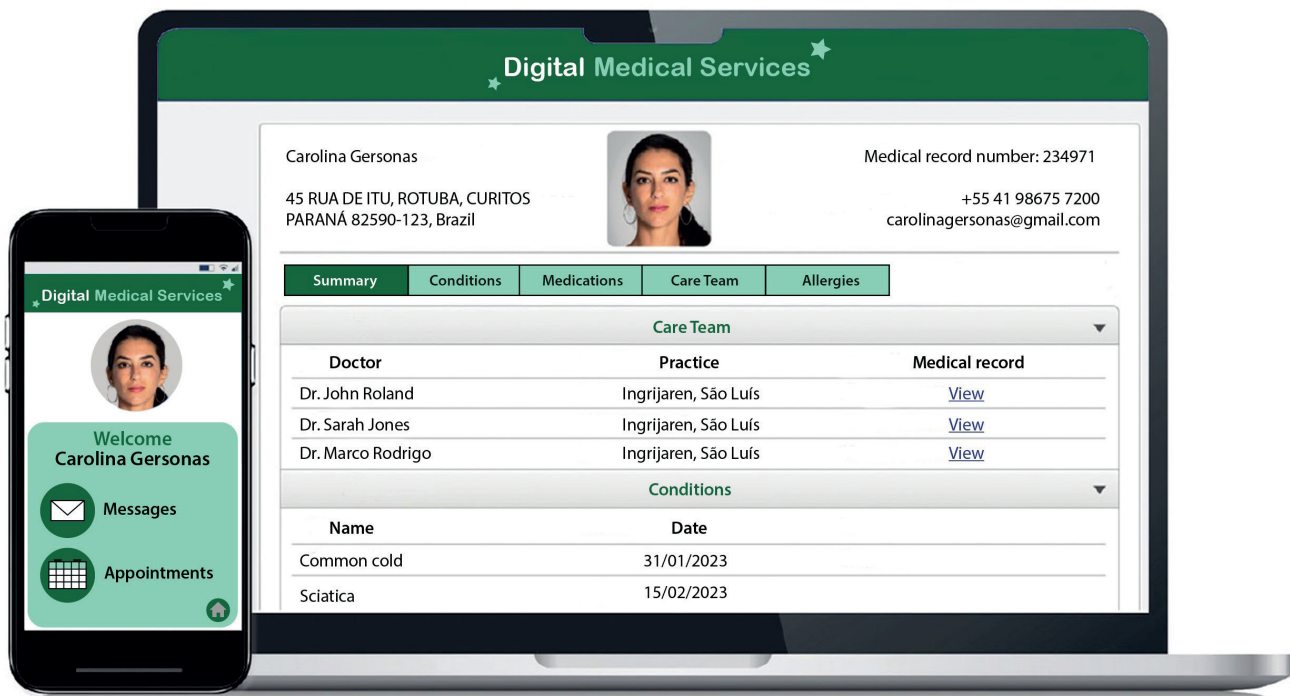
Source B

Digital Medical Services (DMS) is a company based in São Paulo, Brazil, that supports medical care using digital technologies.

DMS will manage the electronic health records (EHRs) (see **Figure 2**) and medical communications for the residents of Ren Valley. The EHRs will be stored in a cloud-based service accessed through the Ren Valley Medical Portal (RVMP).

The RVMP will also be used for collaboration between all stakeholders.

Figure 2: An example of an electronic medical record (EHR)



Source C

Andre is an older member of the community and lives on one of the farms in Ren Valley.

He says, “I have an issue with my heart, and it is gradually getting worse. I may need an operation soon. I am having difficulties with the condition being monitored by the doctors in São Luis but would like to stay in the community with my family and friends until the operation. I am also afraid that the condition might get worse suddenly and that I may need specialized care.”

Figure 3: Andre



Source D

Cecilia is a former nurse who lives in Igrejaren. She is often called on during a medical emergency or when residents need advice on medical treatments.

She is enthusiastic about the possible interventions and would like to be involved.

She knows that the implementation of these interventions will require additional training with new medical and digital technologies.

Figure 4: Cecilia



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References:

- Figure 2** [Mobile phone] Koktong, S., n.d. *Smartphone similar to iphone 13*. [image online] Available at: www.gettyimages.co.uk/detail/photo/smartphone-similar-to-iphone-13-with-blank-white-royalty-free-image/1405838999 [Accessed 24 April 2023]. Source adapted.
- [Laptop] Studio-Pro, n.d. *Realistic macbook mockup*. [image online] Available at: www.gettyimages.co.uk/detail/illustration/realistic-macbook-mockup-blank-white-screen-royalty-free-illustration/1421035376 [Accessed 24 April 2023]. Source adapted.
- [ID photo] Juanmonino, n.d. *Hispanic young woman looking at the camera – stock photo*. [image online] Available at: www.gettyimages.co.uk/detail/photo/hispanic-young-woman-looking-at-the-camera-royalty-free-image/1161639159 [Accessed 24 April 2023]. Source adapted.
- Figure 3** Brnjakovic, I., 2018. *Grandfather, son and grandson working in greenhouse – stock photo*. [image online] Available at: www.gettyimages.co.uk/detail/photo/grandfather-son-and-grandson-working-in-greenhouse-royalty-free-image/990798752 [Accessed 9 March 2023]. Source adapted.
- Figure 4** pixdeluxe, 2017. *Living with nature right on my doorstep stock photo*. [image online] Available at: www.gettyimages.co.uk/detail/photo/living-with-nature-right-on-my-doorstep-royalty-free-image/832988308 [Accessed 9 March 2023]. Source adapted.