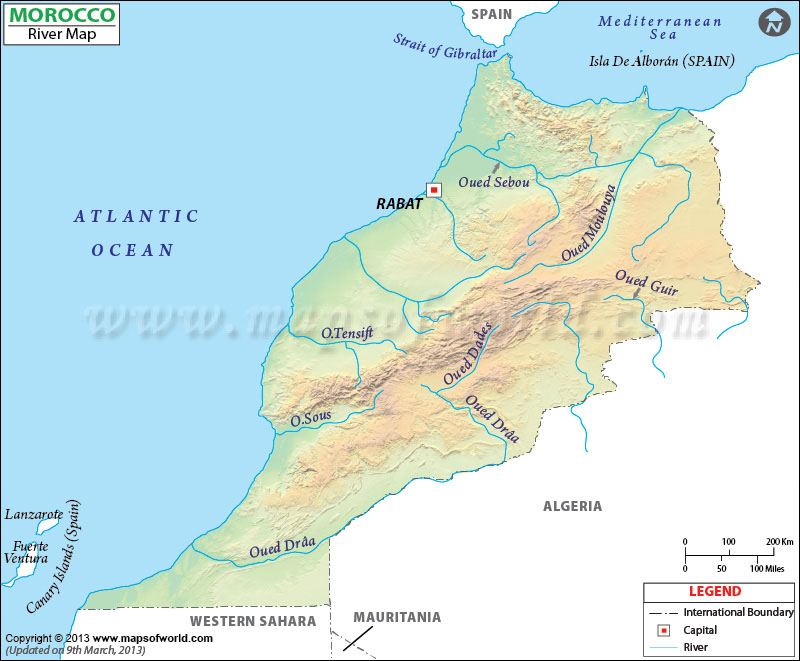
Opportunities and challenges for development: the Draa valley

Use the PowerPoint presentation or the internet to help you with the following activities.

1. Figure 1 shows the major rivers in Morocco.

**Figure 1 The major rivers in Morocco**



1. Label the High Atlas mountain range.
2. Use a highlight pen to highlight the course of the Oued (River) Draa.
3. Locate and label Ouarzazate.
4. Name a tributary of the Oued Draa. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. The Oued Draa flows along the border of which North African country? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Why does the Oued Draa run dry for much of the year in its lower course?

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1. Figure 2 shows the Draa valley as it emerges from the mountains onto the lowlands.
2. Add the following labels to the photo:

* Foothills of the Atlas mountains
* Oued (River) Draa
* Date palms
* Ait Hamou ou Saïd Kasbah (the fortress building)

1. Suggest two reasons for the choice of site for the Kasbah.

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A picture containing outdoor, grass, mountain, nature

Description automatically generated

1. Figure 3 shows agricultural land use adjacent to the Oued Draa. In the foreground, land is used for growing vegetables. In the background are date palms.

**Figure 3 Agriculture in the Draa valley**



1. What is the evidence that the river is experiencing low flow?

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1. What name is given to the flat area of farmland to the right of the river?

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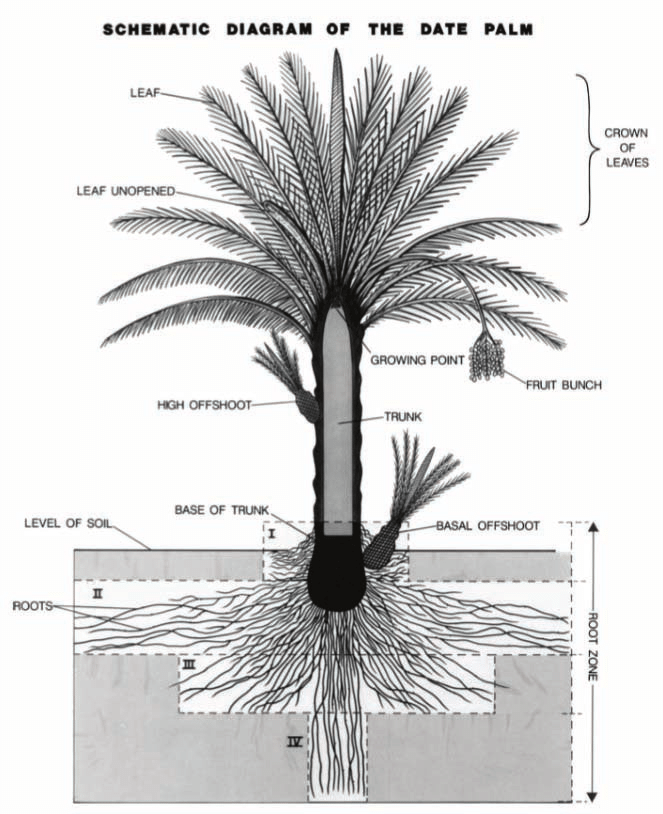
1. Suggest the challenges facing farmers wishing to use the river to irrigate their land.

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1. Look at Figure 4. It shows the main characteristics of a date palm.

* Draw a double-headed arrow alongside the palm to show its height of 23m
* Draw a second double-headed arrow to show your approximate height alongside the tree . . . this will give you an idea of how tall they grow!

**Figure 4 Diagram of a date palm**



<https://www.researchgate.net/figure/Schematic-diagram-of-the-date-palm-Source-USDA-file_fig1_327321891>

1. Suggest why a large mass of the palm tree’s roots grow laterally (sideways) close to the ground surface.

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1. Suggest why some roots grow very deep (Zone IV).

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1. Use the internet to find out more about:

* How the offshoots can be used to grow new palms
* How dates are harvested
* The health benefits of eating dates

1. Study Figure 5.

**Figure 5 Tourists riding camels in Zagora, Draa valley**

A group of people riding horses

Description automatically generated with low confidence

1. Use evidence from the photo to suggest why this is a popular tourist destination?

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1. Suggest advantages and disadvantages that tourists may bring to the area.

|  |  |
| --- | --- |
| **Advantages** | **Disadvantages** |
|  |  |

1. Ouarzazate is the centre of the Moroccan film industry.

**Figure 6 Filming at Ouarzazate**



1. What TV programme filmed at Ouarzazate is shown in Figure 6?

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1. Suggest why Atlas Studios decided to locate at Ouarzazate.

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1. Water supply is a major issue in the Draa valley.
2. What is the main purpose of the El Mansour Eddahbi Dam?

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1. List **two** problems associated with the El Mansour Eddahbi Dam.

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1. The Noor solar plant near Ouarzazate is the largest in the world.

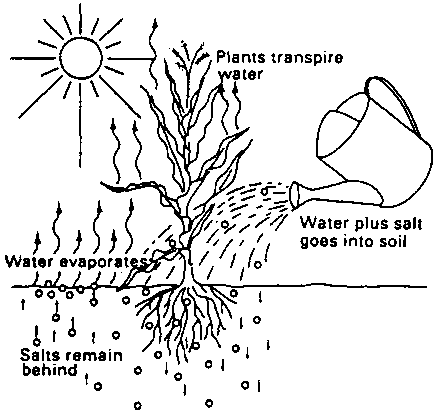
**Figure 7 Noor solar power plant**



1. Using evidence from Figure 7, suggest why this is a good location for a solar power plant.

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1. **Salinisation** is a high concentration of salt at the surface. It may result from irrigation using water with a high concentration of dissolved salts. Alongside the diagram below, explain the process of salinisation. You could do this in the form of a flow diagram.



<http://www.fao.org/3/r4082e/r4082e08.htm>