

# **H2YOLO**






## **SPECIAL CONTRACTS**

**STARTUP NAME:**

**STARTUP MEMBERS:**

# SPECIAL CONTRACTS

	<b>INFORMATION MASTERY</b>	<b>DATA SCIENCE</b>	<b>SPATIAL DISTRIBUTION</b>
<b>SPECIAL CLIENT</b>			

## INFORMATION MASTERY SPECIAL CLIENT



Malala Yousafzai grew up in Pakistan and experienced some very traumatic events growing up. Pakistan also experiences problems with water, and so access to water is an issue close to her heart.

She has been given the job of “special investigator” by the United Nations for this year. During this year she is to produce a documentary about water access for an international audience. She is willing to pay your company to gather some information for the documentary.

1. Using geography language, describe which area of the world has the worst access to water?

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2. Explain why this area has such bad access to water?

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3. Describe one way we could improve the water access for this place

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4. Explain how this suggestion would improve water access for this place

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5. Provide some supporting evidence that your solution would work

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6. Describe any problems that your solution might have in working

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7. What information would the people putting your solution into place need?

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8. What other resources (e.g. money, buildings...) would your solution require?

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9. Explain why you think no-one has implemented this solution already

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10. Why do you think there are big differences in water access across the world?

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11. Why do you think there is inequality in other areas (e.g. how wealthy a country is) across the world?

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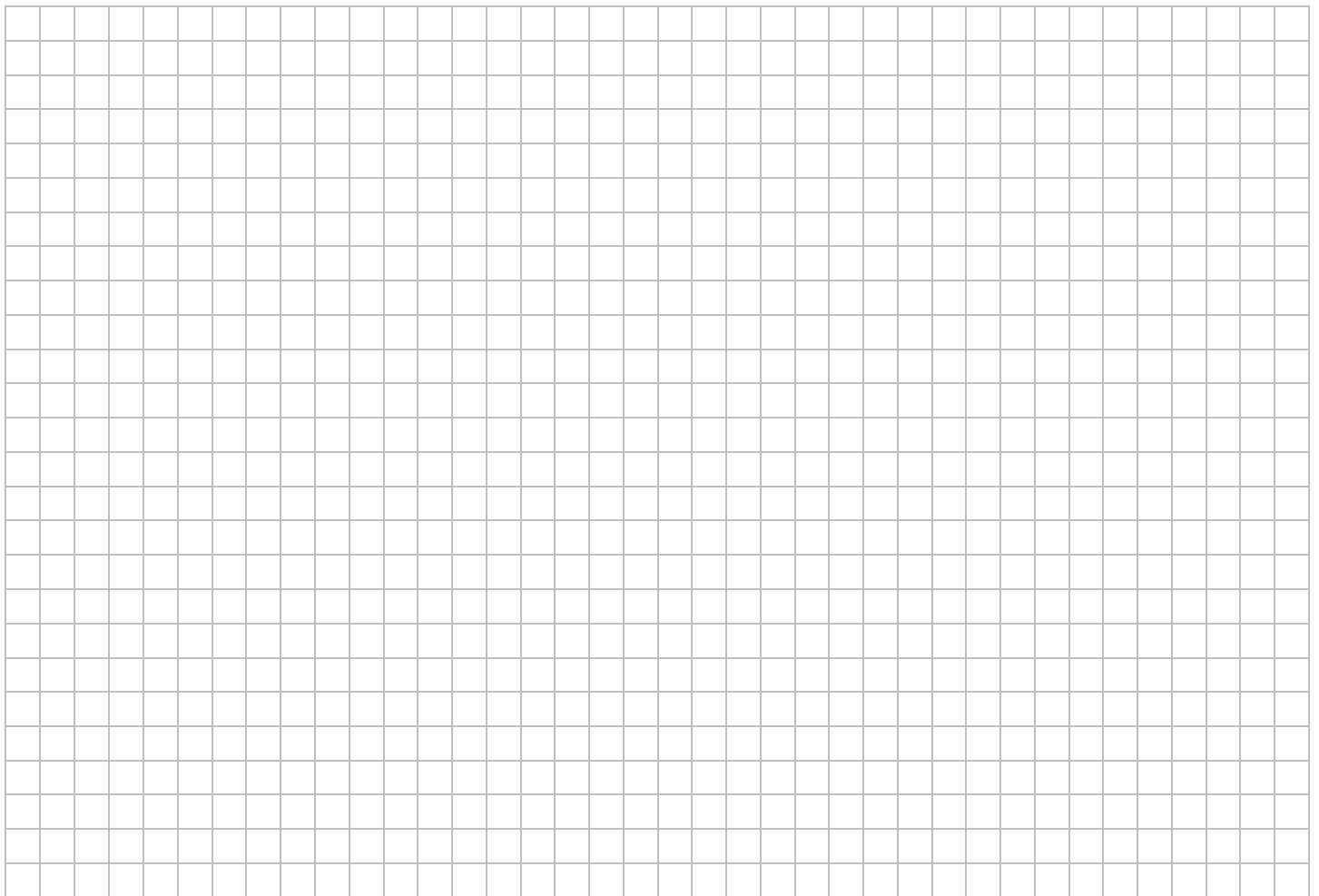
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# DATA SCIENCE SPECIAL CLIENT



The new Prime Minister of Australia, Anthony Albanese, is going to an international water summit. Countries from around the world will be discussing world water use. To support him, the government is willing to pay your company to gather some background information

Find some data on annual world water use by country. Graph these countries: USA, UK, Australia, India, China, Japan, Brazil, South Africa, Russia. Make sure to include the B.A.L.T.S. elements (border, axis labels, legend, title, source)



Write 2-3 sentences explaining what that graph shows:

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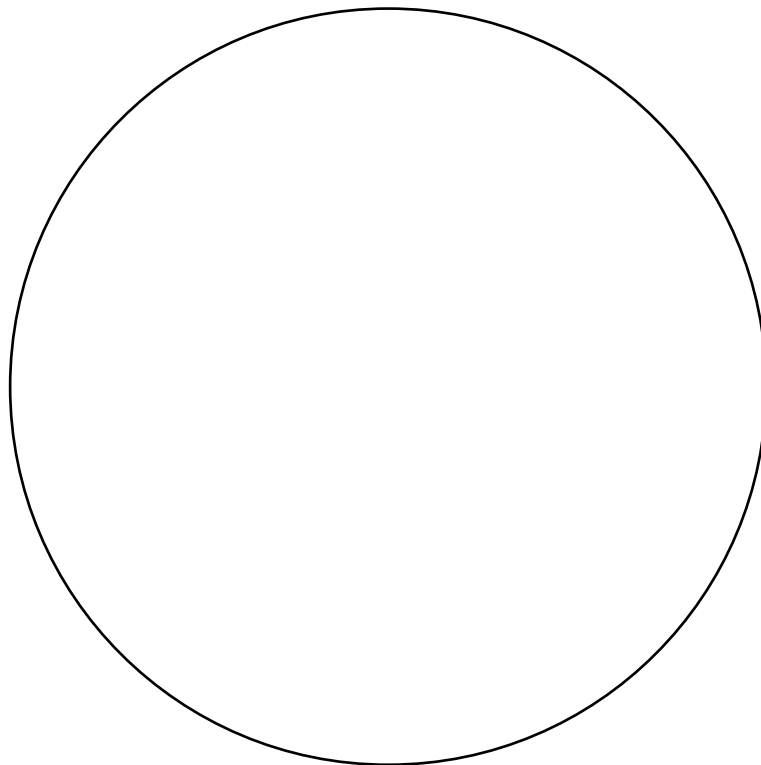
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Represent the same information as a pie chart.

To learn how to create pie charts go here:

<https://www.mathsisfun.com/data/pie-charts.html>



Who might use this information?

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What might they use it for?

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# **SPATIAL DISTRIBUTION**

## **SPECIAL CLIENT**



The world hates Will Smith after the whole smacking someone in the face thing... So he wants to give something back to the world. He wants to build free water extraction devices (wells) in places around the world that have water stress.

1. Add the elements of B.O.L.T.S.S. to the world map and Australia map.
2. On the map shade in areas of high water stress (include in the legend)
3. Include 10 locations that you think it would be good to build wells on (include in the legend)



Will Smith also wants to do something in particular for Australia because he knows how many people think he is a jerk after he slapped a comedian right in the face during the Oscars. He wants to provide some support to business. On this map:

1. put the elements of BOLTSS
2. include on the map the size of each state's economy
3. include one way that each state uses water in its economy



Suggest one way that water could be used to improve the economy in each state/territory (perhaps by finding a way to improve water use in an existing industry or create a new one?):

Victoria

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New South Wales

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Queensland

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Northern Territory

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Western Australia

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Tasmania

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Australian Capital Territory

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