



WHY DOES  
CLIMATE  
CHANGE  
MATTER?



1  
00:00:00,645 --> 00:00:03,535  
Why does climate change matter?

2  
00:00:08,541 --> 00:00:06,506  
NASA

3  
00:00:08,541 --> 00:00:09,909  
Well, it's happening.

4  
00:00:09,909 --> 00:00:13,179  
We look at the Earth from space  
and we measure it on the ground.

5  
00:00:13,179 --> 00:00:16,049  
And what we see is that the planet's  
climate is changing.

6  
00:00:16,449 --> 00:00:20,420  
The last years have been the warmest  
since modern record-keeping began.

7  
00:00:21,421 --> 00:00:22,622  
It's serious.

8  
00:00:22,622 --> 00:00:25,492  
Even a little change  
in temperature can have big effects.

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00:00:25,492 --> 00:00:27,494  
And we're seeing  
some of those effects now.

10  
00:00:27,761 --> 00:00:29,329  
Sea levels are rising.

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00:00:29,329 --> 00:00:34,534  
We're seeing more extreme events like  
heatwaves and heavy rainfall and wildfire.

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00:00:34,801 --> 00:00:38,271

And we know that a lot of those effects are going to increase with more warming.

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00:00:38,371 --> 00:00:41,941

These changes are impacting decisions that some people make every day,

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00:00:41,941 --> 00:00:46,646

like a farmer thinking about what crops to grow or a homeowner thinking about flood risk.

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00:00:47,280 --> 00:00:48,548

But there's hope.

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00:00:48,548 --> 00:00:51,818

There are scientists at NASA and around the world that are researching this.

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00:00:51,851 --> 00:00:54,754

We know more about our planet than we have ever before,

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00:00:54,888 --> 00:00:56,656

and we learn more every day.

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00:00:56,656 --> 00:00:58,792

So we know why climate is changing.

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00:00:58,892 --> 00:01:02,762

We know that it's due to increasing greenhouse gases from human activity.

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00:01:02,896 --> 00:01:05,732

We also have tools that can help us better understand

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00:01:05,732 --> 00:01:08,001

and better prepare for future climate change.

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00:01:08,414 --> 00:01:13,073

So we develop computer models that help us understand how much it might change in the future.

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00:01:13,173 --> 00:01:16,810

And we're also developing technologies here at NASA and around the world

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00:01:16,810 --> 00:01:21,381

that can help us limit future warming or respond to the warming that we're experiencing.

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00:01:22,015 --> 00:01:23,983

So why does climate change matter?

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00:01:23,983 --> 00:01:25,085

It's real.

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00:01:25,085 --> 00:01:27,821

It's serious, and it's here.