第15集: 農業廢棄物的逆襲

有人說,一根香蕉皮的命運…就是被踩到,或被丟掉。 But what if I told you... it could become medicine? 如果我告訴你,他會成為藥物的原料? 邀請大家走進一場正在田野間悄悄上演的科技逆襲。 農業的廢棄物,或許將不是結束,而是另個更高端的開始。 有個科技界正在重新定義"垃圾"

A. News in Tech Tones

Agricultural waste is making headlines — through bioconversion, scientists are turning things like corn husks and fruit peels into eco-products we can actually use. 農業廢棄物登上科技頭條,科學家運用「生物轉化」技術,讓玉米殼、果皮變成有用的環保產品。

From green packaging to healing gels, this isn't just recycling — it's a new way to grow value from what we used to throw away.

從綠色包裝到療癒凝膠,這不只是回收,而是從「丟棄物中創造新價值」的一種革命。

B. Tech Key Words

Bioconversion 生物轉化

Bio- = relating to life or living organisms 與生命、生物有關的字首(prefix)
Conversion = the process of changing something from one form to another. 轉換、變化。

Bioconversion 用生物的力量所進行的轉換,例如:把廢棄物轉變成有用的資源。

對話練習:

A: We use bacteria or enzymes to turn farm waste into plastic, fertilizer - even energy.

我們會用細菌或酵素,把農業廢棄物變成塑膠、肥料,甚至能源。

B: That's bioconversion! Turning trash into tech—like a living factory! 這就是生物轉化!把垃圾變科技,就像一座會動的工廠!

C. If Technology can talk

如果科技會說話, "Bioconversion 生物轉換"會說什麼? I turn leftovers into beginnings. I don't just recycle - I reimagine. 我把殘餘,變成開始。我不只是回收,而是重新想像的起點。

D. 字彙整理

Bacteria (noun) 細菌 Enzyme 酵素 Fertilizer 肥料

 \square C. It stops plants from growing.

E. 關鍵字應用練習

L.	删獎于應用無首
Q1	. What is bioconversion?
	☐ A. Burning farm waste to make smoke.
	☐ B. Using bacteria or enzymes to turn organic waste into useful products.
	\square C. Throwing waste into the landfill to save energy.
Q2.	. What products can be made through bioconversion?
	☐ A. Plastic, fertilizer, or even energy.
	☐ B. Diamonds and gold.
	☐ C. Only food for animals.
Q3.	. Why is bioconversion important?
	☐ A. It creates new value from agricultural waste instead of throwing it away.
	☐ B. It produces more garbage.

Q4. (造句練習 sentence builder) 請用"Bioconversion 生物轉換"造一個屬於你的句子。

舉例

主詞	動詞/動詞片語	其他元素
Scientists	are using	bioconversion to turn fruit peels into eco- friendly products.
Bioconversion	changes	farm waste into useful materials like fertilizer or bioplastics.
Farmers	benefit from	bioconversion because it reduces waste and

主詞	動詞/動詞片語	其他元素	
	creates	new value for farmers.	
我的句子	~ :		
Q5. Fill	in the blanks (填空)		
1.	Bioconversion uses or	to transform waste.	
2.	Agricultural waste can become	,, or even	
3.	3. Bioconversion helps the environment by reducing		
4.	It reminds us that waste may actually	be a	
	(全 本 茨 安 · hactaria • en zymes • nlastic	• fertilizer • energy • pollution • beginning)	

生物轉化

用生物的力量,給廢棄物第二次生命。 下次,當你準備丟掉果皮、稻殼、瓶子,不妨停一下。 It's not waste. It's waiting. 你還記得上一次丟掉的,是不是也有機會重生呢? 等待被轉換成為新資源?