

Anti-personnel Landmine Detection

Miners!

#AttractYoung

19-20 April 2018

Trieste

How we will do that?

- **First step:** bees
- **Second Step:** drones
- **Third Step:** detonators or flowers
- **...and:** mapping and monitoring of the existing not-detonated landmines.



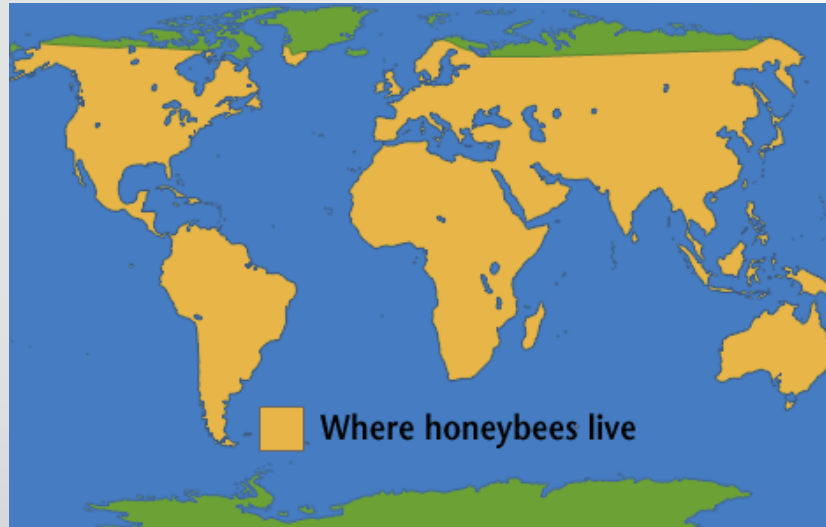
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'Natural' Technology

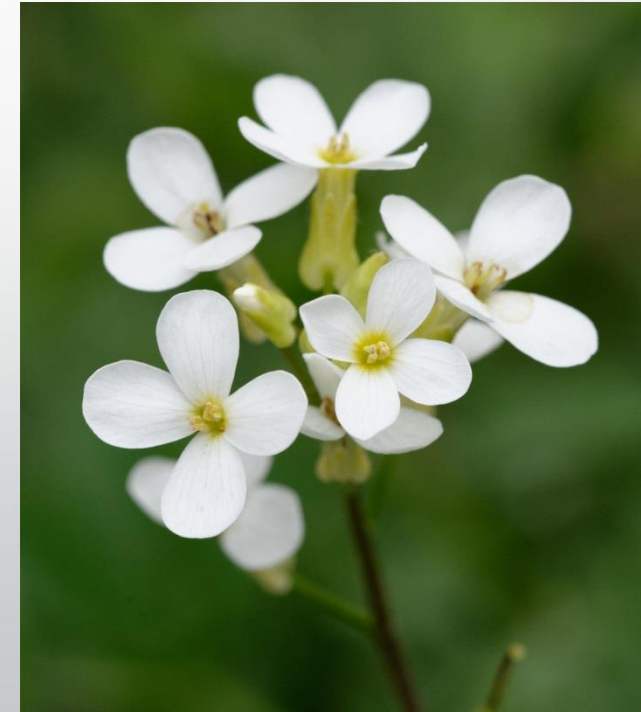
- **High-specialized trained Bees:** 2 hours training

99% reliability

more sensitive than actual technology

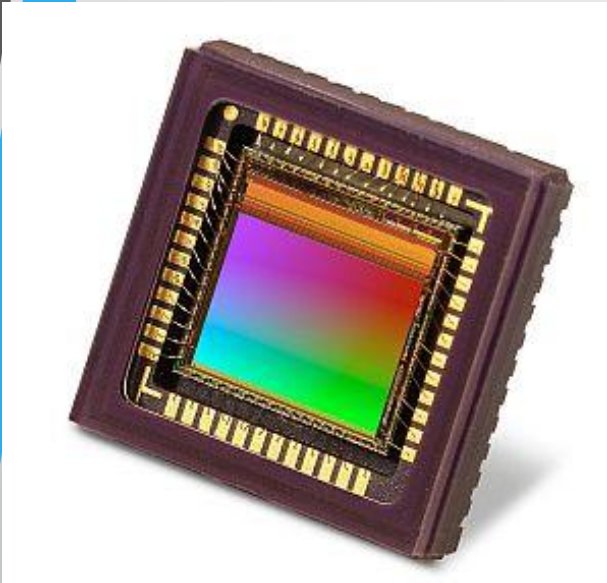


- **Genetically modified flowers:**
they change color when detect mines



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'Real' Technology



- **Hardware and Infrastructure:** Imaging Sensors (Visible Light), Wireless Sensor Network (IEEE 802.15);
- **Software:** Pattern Recognition system, Machine Learning Techniques;
- **Internet:** Website with updated mines location (GPS technology);
- **Drones!**

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Users

- **Army:** combat engineers;
- **Mine clearance agencies:** governments;
- **NGOs**



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Beneficiaries

- Farmers;
- Governments;
- Local authorities.



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Miners!

Luka

Sara

Klint

Sebnem

Adam

Coach: Regina

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