2025-1-RO01-KA121-VET-000319082

4IT Erasmus+Project, 2025-1-RO01-KA121-VET-000319082

Beneficiary: "Gheorghe Vranceanu" National College, Bacau

Sending organization: "Gheorghe Vranceanu" National College, Bacau

MOBILITY PORTFOLIO

Valencia, Spain

Mobility period 24.10.2025- 06.11.2025

Practice period: 25.10.2025-05.11.2025

RECEIVING COMPANY: COMPACSERVER S.L.

Practice tutor: Joel Gómez Padial

Participant: Miclăuș Daria-Tereza

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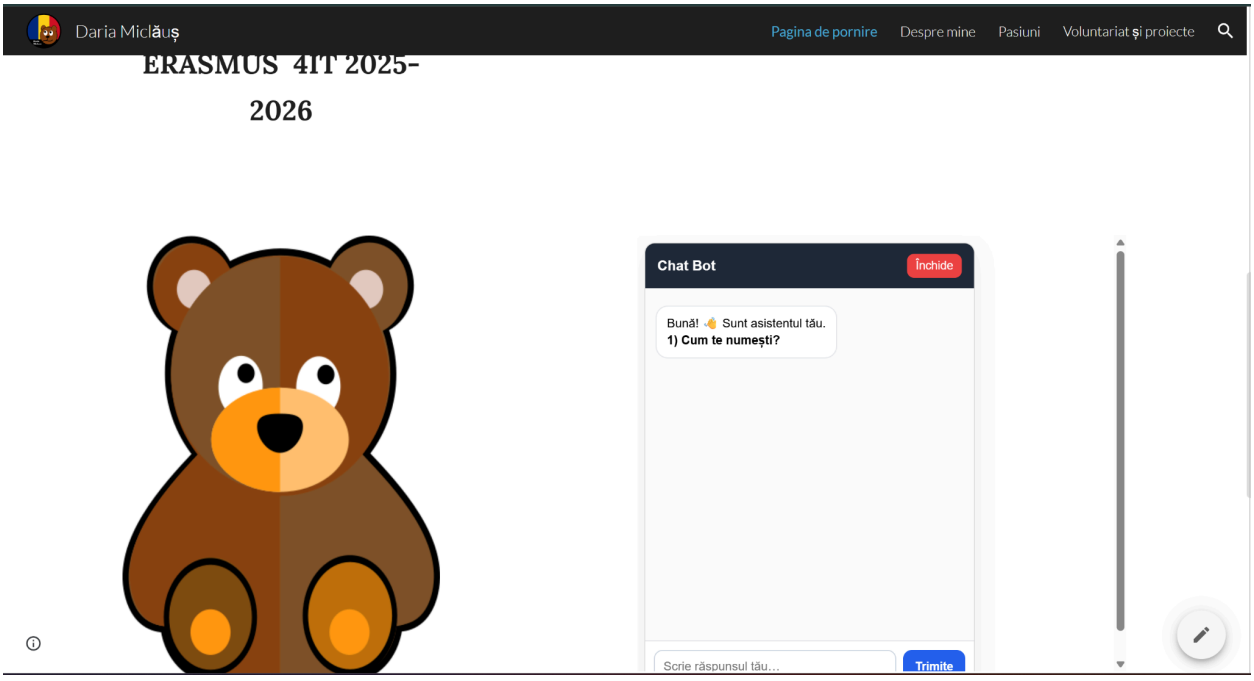
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Sectiunea 1:





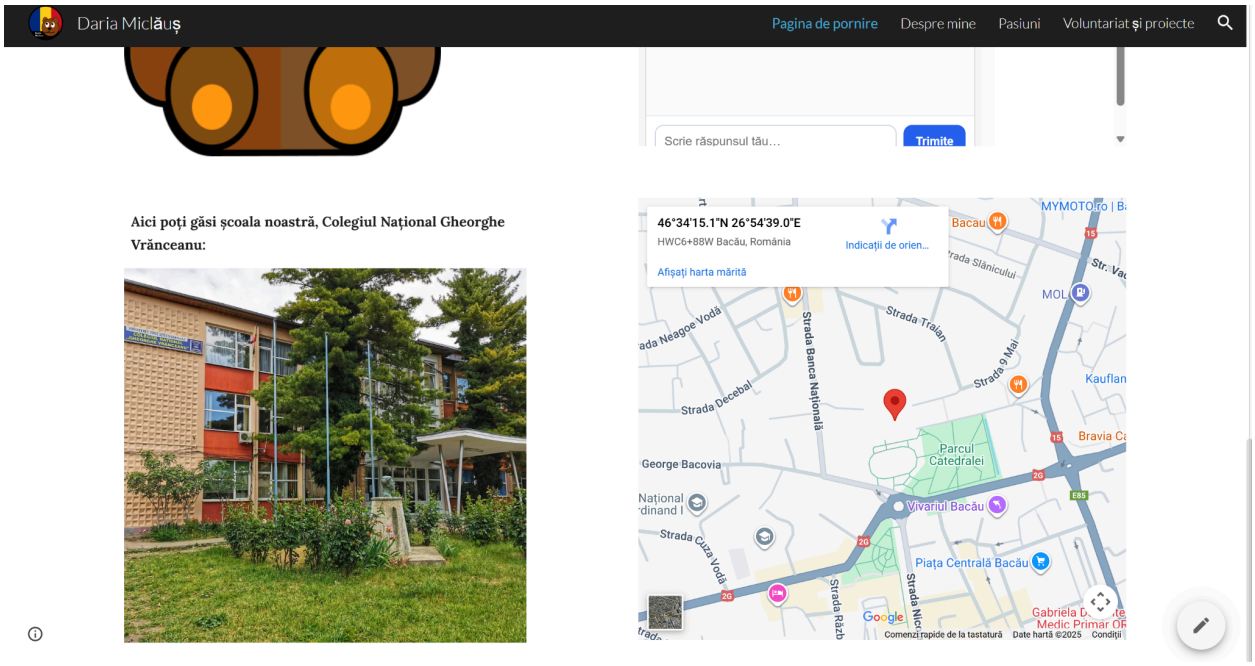
Consider că participarea la programul ERASMUS+ 4IT reprezintă o șansă valoroasă de dezvoltare personală și profesională. Prin acest proiect voi putea să descopăr noi moduri de lucru, să colaborez cu persoane pasionate de tehnologie și să îmi extind cunoștințele în domeniul informaticii. Îmi doresc să iau parte la această experiență pentru a-mi consolida competențele digitale, a învăța să gândesc mai creativ și a-mi lărgi perspectiva asupra posibilităților pe care le oferă o carieră în IT.

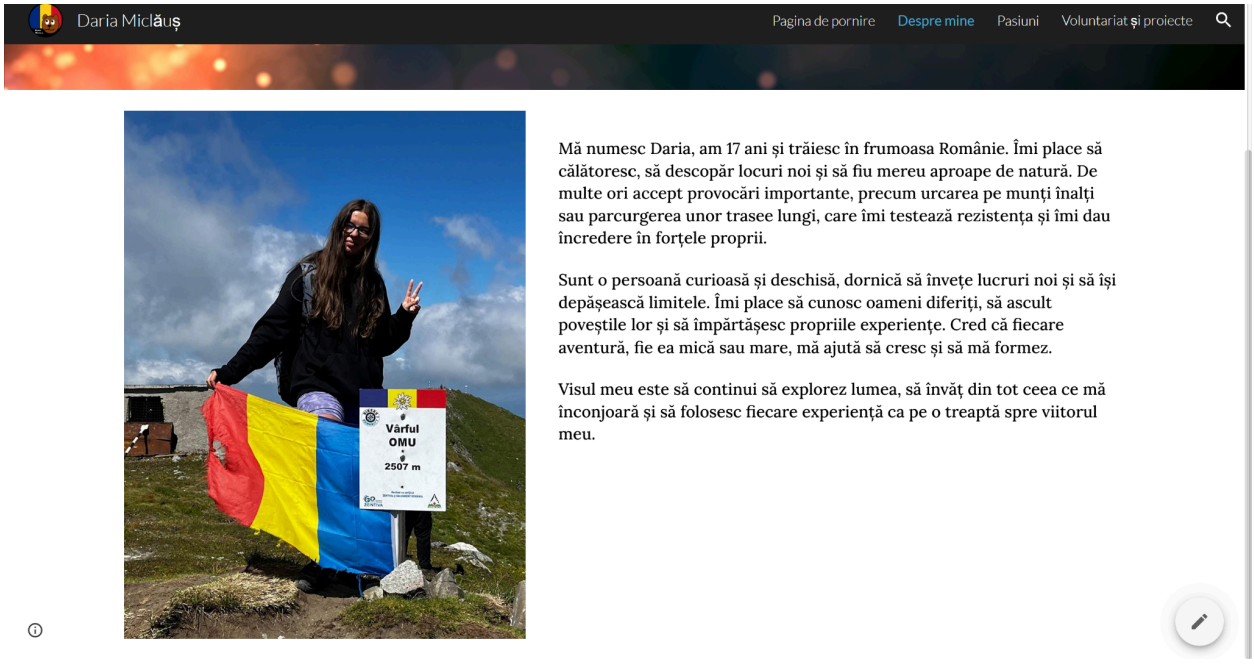


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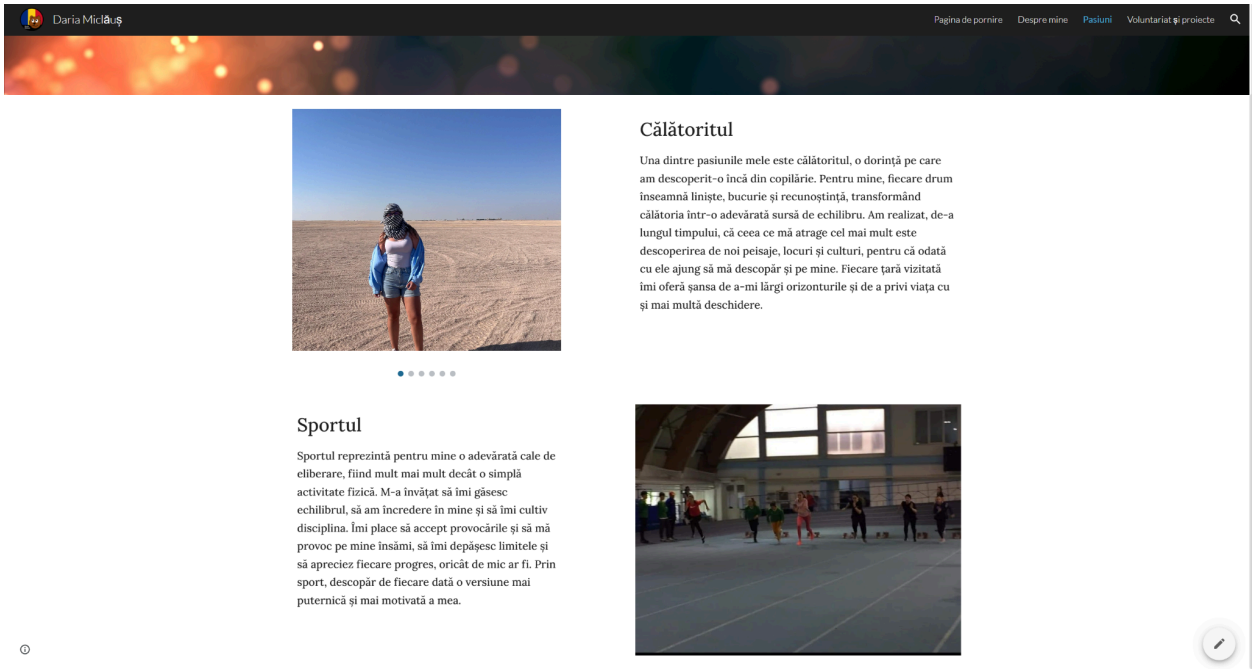


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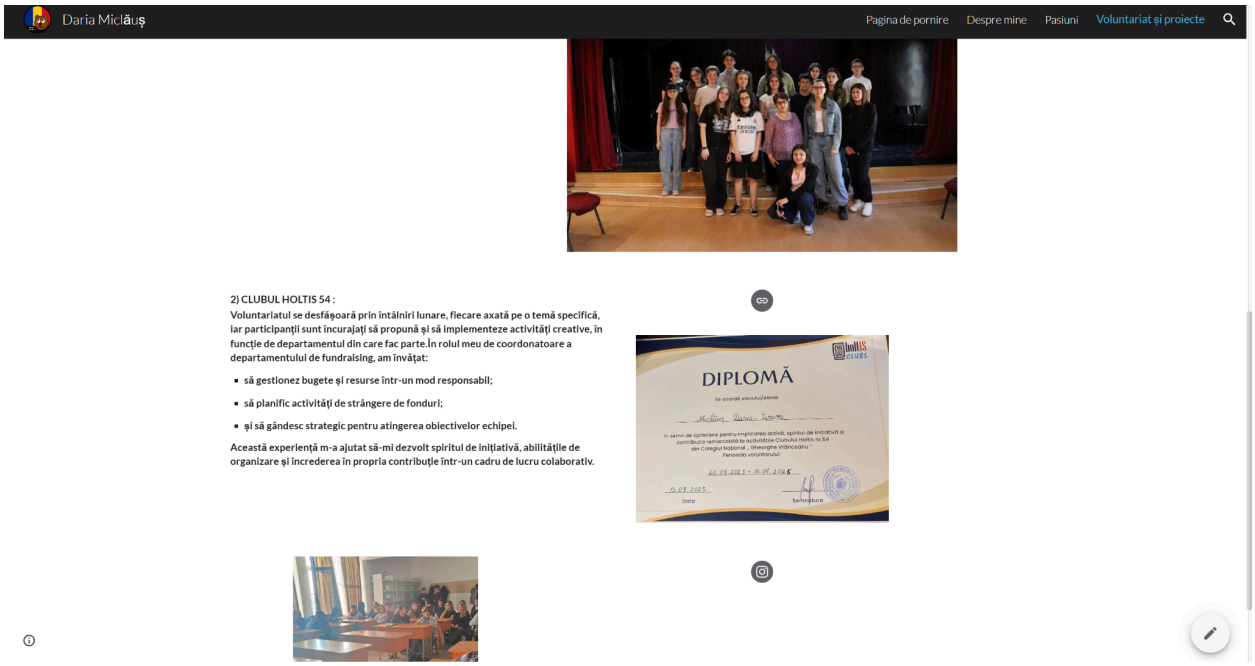
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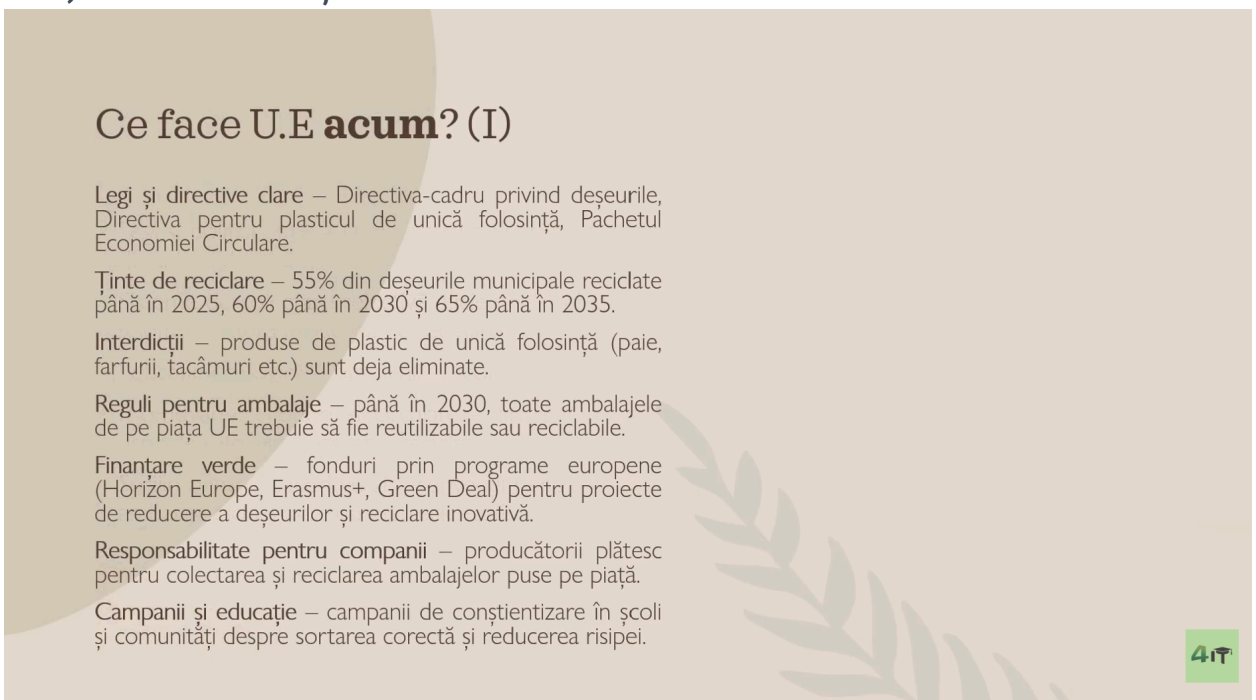
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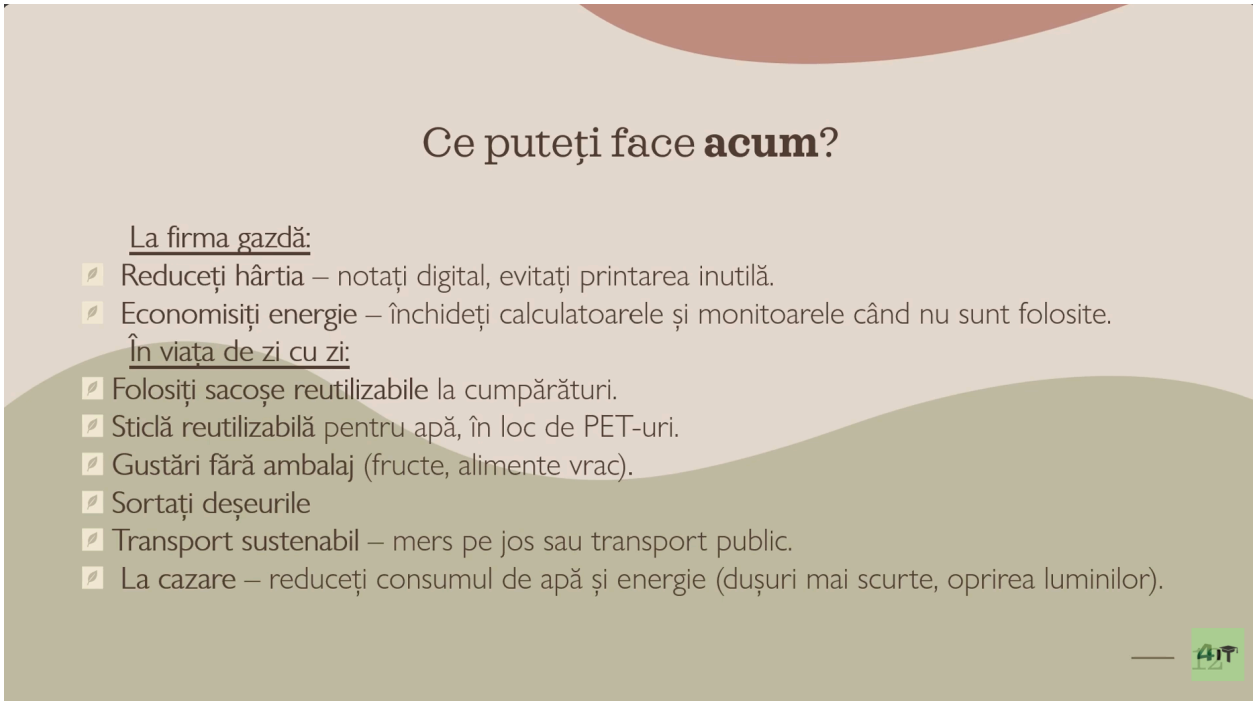
Pregătire culturală:

1)Comportament sustenabil și protecția mediului:

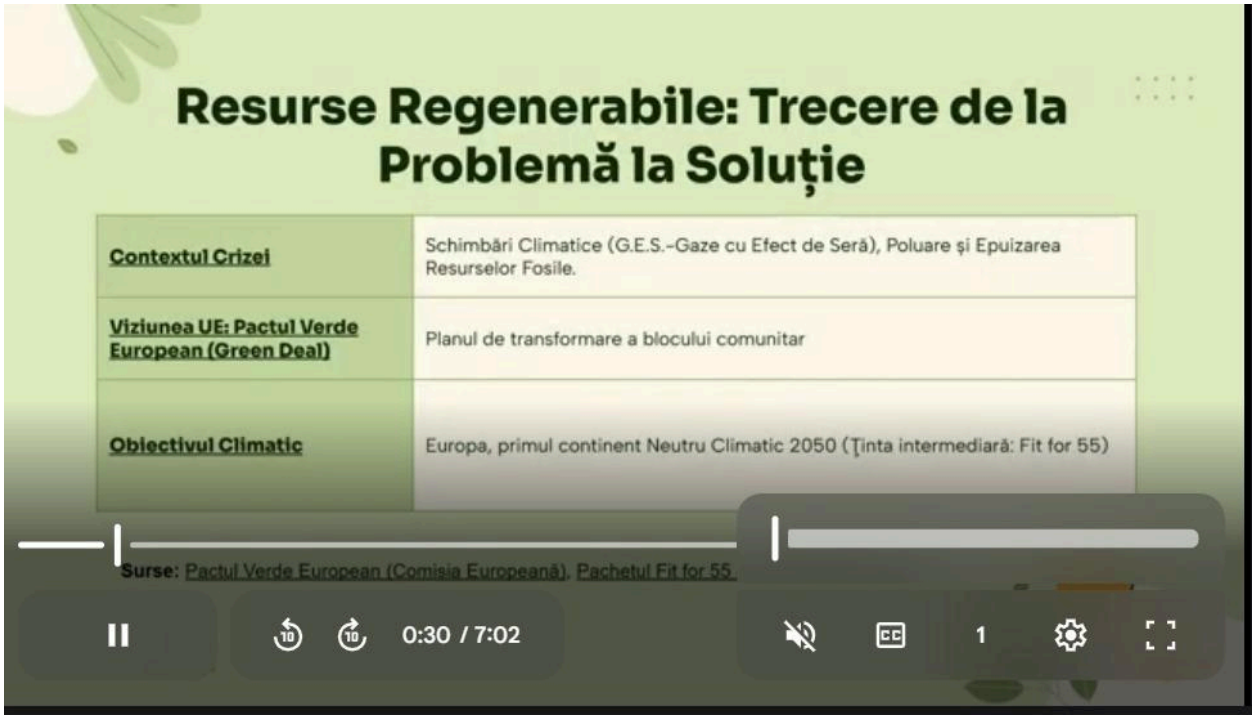
a) Reducerea deșeurilor:



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1b) utilizarea resurselor regenereabile:



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2)Competențe cheie Europene:



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3)Valencia - prezentare generală:



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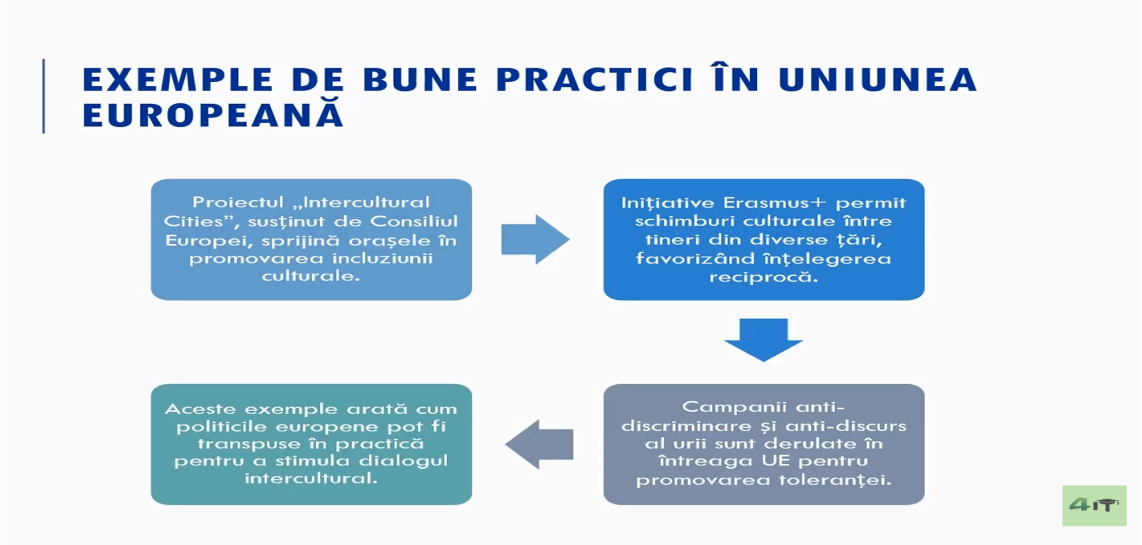


4)Diversitatea Culturală și Combaterea Discriminării:



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5)Valori europene, cetatenie activa si implicare democratica:



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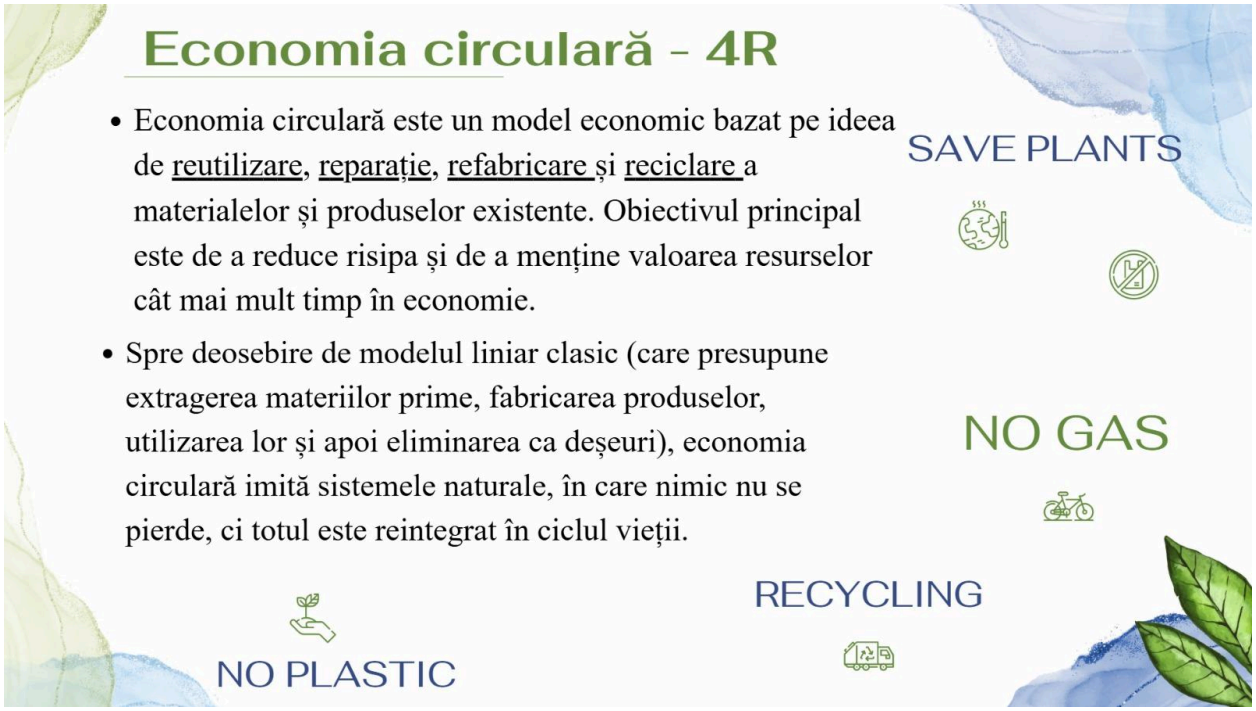


6)Dezvoltare durabila si antreprenoriat: economia circulara:

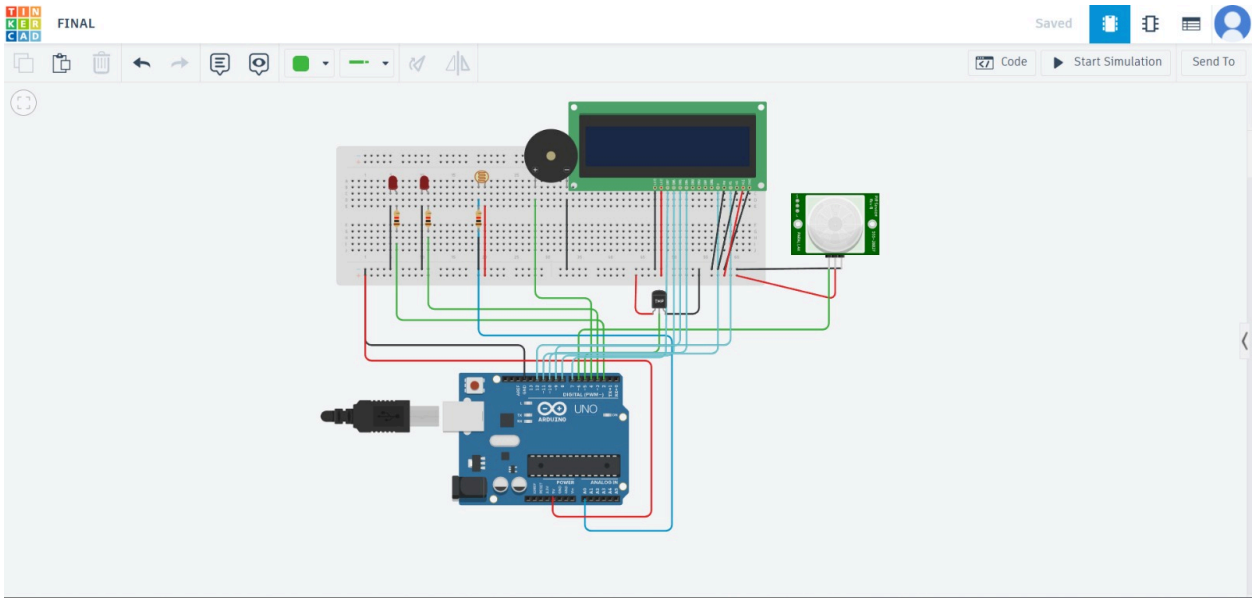


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Sectiunea 2:Home station Controle



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Arduino Uno

FINAL_PROJECT.ino

```ino
#include<SimpleDHT.h>
#include <LiquidCrystal.h>
#define DHT 5
#define LED1 2
#define LED2 3
#define buzz 4
#define tmp 5
#define sen 6
#define PIN6 7
#define PIN5 8
#define PIN4 9
#define PIN3 10
#define PIN2 11
#define PIN1 12
#define ldr A0
SimpleDHT11 sensor;
LiquidCrystal lcd(PIN1,PIN2,PIN3,PIN4,PIN5,PIN6);
bool AlarmFromTemperature=false;
bool AlarmFromHumidity=false;
bool AlarmFromLight=false;
bool AlarmFromPresence=false;
bool ExistAlarm=false;

void setup(){
  pinMode(DHT,INPUT);
  pinMode(PIN1, OUTPUT);
  pinMode(PIN2, OUTPUT);
  pinMode(PIN3, OUTPUT);
  pinMode(PIN4, OUTPUT);
  pinMode(PIN5, OUTPUT);
  pinMode(PIN6, OUTPUT);
  pinMode(LED1, OUTPUT);
  pinMode(LED2, OUTPUT);
  pinMode(buzz, OUTPUT);
  pinMode(tmp, INPUT);
```

FINAL_PROJECT.ino

```ino
  pinMode(tmp, INPUT);
  pinMode(sen, INPUT);
  pinMode(ldr,INPUT);
  Serial.begin(9600);
  lcd.begin(16,2);
}

void loop() {
lcd.clear();
AlarmFromTemperature=false;
AlarmFromHumidity=false;
AlarmFromLight=false;
AlarmFromPresence=false;
ExistAlarm=false;

  byte temperature = 0;
  byte humidity = 0;
  byte data[40]={0};
  sensor.read(DHT,&temperature,&humidity,data);
  int a=analogRead(ldr);
  int b=map(a,0,1023,0,100);
  if(!(temperature>=10&&temperature<=35)){
    AlarmFromTemperature=true;
    ExistAlarm=true;
  }

  if(!(humidity>=25&&humidity<=80)){
    AlarmFromHumidity=true;
    ExistAlarm=true;
  }

  if(!(b>=15&&b<=80)){
    AlarmFromLight=true;
    ExistAlarm=true;
  }
```

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FINAL_PROJECT.ino

```
  }

  if(digitalRead(sen)==HIGH){
    AlarmFromPresence=true;
    ExistAlarm=true;
  }
  if(ExistAlarm){
    lcd.setCursor(0,0);
    lcd.print("ALARM!!");
    lcd.setCursor(0,1);
    if(AlarmFromTemperature){
      lcd.print("T");
    }
    if(AlarmFromHumidity){
      lcd.print("H");
    }
    if(AlarmFromLight){
      lcd.print("L");
    }
    if(AlarmFromPresence){
      lcd.print("P");
    }
    digitalWrite(buzz,HIGH);
    digitalWrite(LED1,HIGH);
    digitalWrite(LED2, HIGH);
    delay(1000);
}
else
{
  digitalWrite(buzz,LOW);
  digitalWrite(LED1,LOW);
  digitalWrite(LED2, LOW);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("L: ");
  lcd.print(b);
```

FINAL_PROJECT.ino

```
    lcd.print("L");
    }
    if(AlarmFromPresence){
      lcd.print("P");
    }
    digitalWrite(buzz,HIGH);
    digitalWrite(LED1,HIGH);
    digitalWrite(LED2, HIGH);
    delay(1000);
}
else
{
  digitalWrite(buzz,LOW);
  digitalWrite(LED1,LOW);
  digitalWrite(LED2, LOW);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("L: ");
  lcd.print(b);
  lcd.print(" % ");
  lcd.print("H: ");
  lcd.print(humidity);
  lcd.print(" % ");
  lcd.setCursor(0,1);
  lcd.print("T: ");
  lcd.print(temperature);
  lcd.print(" °C ");
  lcd.print(" No P");
  delay(1000);
}
}
```

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