

### WHAT IS SUSTAINABLE DEVELOPMENT

**1976** = "Development that meets the needs of the present without compromising the ability of future generations to meet their own needs"

#### Key International Events:

**1992**, Earth Summit

**2012**, UN Conference on Sustainable Development

**June 2017**, Council of EU "sustainable development lies at the core of European values"

**Scepticism:** Warm embrace by policy-makers ? Achievable & measurable Ex: *Europe 20, good Sustainable Development growth strategies*

#### Three broad approaches:

1. **The three-pillar approach** (Economic, environment, Social)
2. **The ecological approach** (economic, Social)
3. **Capital Approach** ( the opportunity for non-declining welfare through time)

### DIFFERENT MEASURES

Dashboards, Composite Indices that combine indicators, Footprints...

UN SDGs – 230 indicators monitoring 17 goals & 169 targets

Irish CSO Sustainable Development Indicators: **Economy** (13) Ex: Gross Capital Formation,

**Social** (16) Ex: Obesity Levels in 2014,

**Environment** (19) Ex: Domestic Waste Water Treatment 2002-16

### ECONOMIC DEVELOPMENT

Goals of *Increase human well-being.*

Economic Growth **Wealth/Capital** = generate well-being

**Comprehensive wealth** = Stocks of Human, Physical, Natural capital and technology

GDP *Gross Domestic Product*  
No measure SD

### ECONOMIC DEVELOPMENT (cont)

SEEA *System of Environmental Economic Accounting*  
1970s = Develop "green" accounts + aid in SD measurement to produce internationally comparable statistics

2 Keys components

**1. SEEA Central Framework** (Environmental flows, Stocks of environmental assets, Economic activity related to the environment)

#### 2. SEEA Ecosystem

**Accounting:** Ecosystem

Extent, Ecosystem

Condition, Ecosystem

Service, Ecosystem

Monetary Assets, Thematic

Accounts.

The EU requires all Member States to construct natural capital accounts. All Member States must regularly report.

The six modules are:  
Air emissions accounts,  
Environmental taxes,  
Economy-wide material flows, Environmental protection expenditure, physical energy flows, Environmental goods and services