## B/S/H/

# Lernreise 07/2022

SmartGrow as an example of eco-friendly products across the value stream

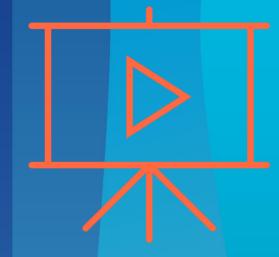
2022-07-21 Tan, E-Lin (BSH PCP FD) e-lin.tan@bshg.com



## Agenda

- ▶ 1. What is Bosch SmartGrow
- ▶ 2. Why is Sustainability a CORE value proposition
  - 3. Our approach, journey and achievements
  - 4. Two cases: Packaging and CE
  - 5. Challenges and Outlook





# WHAT IS BOSCH SMARTGROW LIFE



## Why is Sustainability a core value proposition for Bosch SmartGrow?

Target Consumer DEMANDS: "If I don't perceive it to be sustainable, I will not buy!"

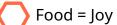
#### **CONSUMER Carla Creative**





#### Solution





Eat healthy = Fresh

Home = who I am = my Sanctuary

Durable, easy to use and maintain

Responsible (Social and Planet)



- **Design Sprints**
- Consumer interviews
- UX tests



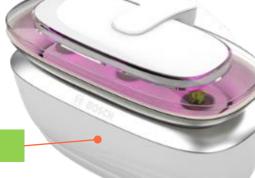












Consumer perception: Material is most important

## Qn: Which material meets all consumer and technical requirements for a smart garden?

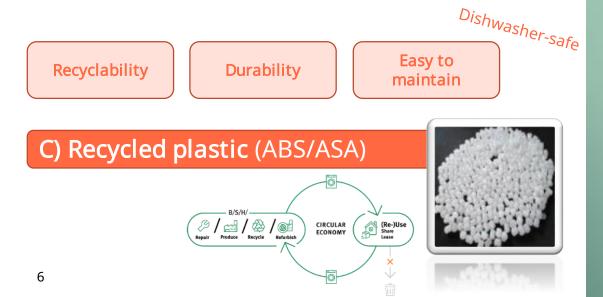
1) Sustainable 2) Durable, easy to maintain 3) Design – timeless 4) Hold water 24 h / day





## Recycled plastic meets the requirements and is the sustainable way forward

- 1. Reduces Pollution Across Ecosystems
- 2. Needs Less Energy & Helps Conserve Natural Resources
- 3. Saves Fast-depleting Land-fill Space
- 4. Eases the Demand on Fossil Fuel Consumption
- 5. Promotes a Sustainable Lifestyle



## **Bosch SmartGrow Life**

Design your own home garden, one SmartGrow at a time



### No green thumb required



### Variety

50+ herbs, salads, edible flowers, fruits, microgreens

Even in winter and And your holiday

#### Natural

Healthy, vitamin-packed and fresh <u>all year round</u>, no GMO, no pesticides

## Auto-optimized

Patented, intelligent technology for the right lighting and irrigation when needed

#### • Sustainable Across the value chain

Made in Europe, highly efficient and durable, made of 100% recycled white plastic

### Design your way

Modular configurations for the look and experience you want

## Agenda

- 1. What is Bosch SmartGrow
- 2. Why is Sustainability a CORE value proposition
- ▶ 3. Our approach, journey and achievements
- ▶ 4. Two cases: Packaging and CE
  - 5. Challenges and Outlook





## SmartGrow Life - Comprehensive sustainable approach from cradle to cradle From listening to the consumer to making it happen in < 2 years with our strategic suppliers



#### Packaging

- 100% free of EPS / Styrofoam
- 100% recyclable
- 80% recycled paper
- Innovative cut-out design (no stuffing material)
- Upcycling (2nd Life)

#### Device

- Made in Europe
- 100% recycled white plastic
- 66,3% recycled content
- 87.5% recyclability rate

#### Plant Consumable

- 100% recycled plastic frame
- Rockwool from basalt rock

#### Efficient and durable technology

- 10 year lifetime magnetic coupling pump-motor system
- 1) Cradle-to-cradle LCA study with LCS GmbH, reference: supermarket basil
- DE as a pilot market
- 3) Social organization as partners for consumable and closed loop

B/S/H/

## SmartGrow Life Sustainable Packaging

No EPS, recycled and recyclable materials, 2nd life



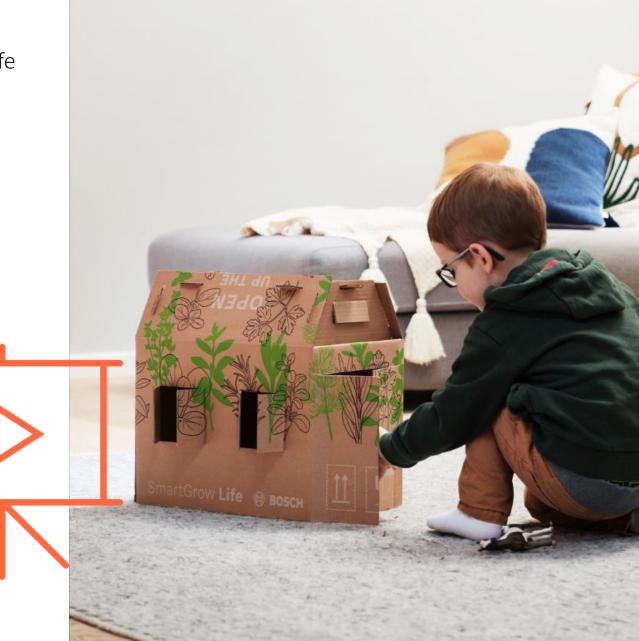


## SmartGrow Life Sustainable Packaging

No EPS, recycled and recyclable materials, 2nd life

BSH Partner:







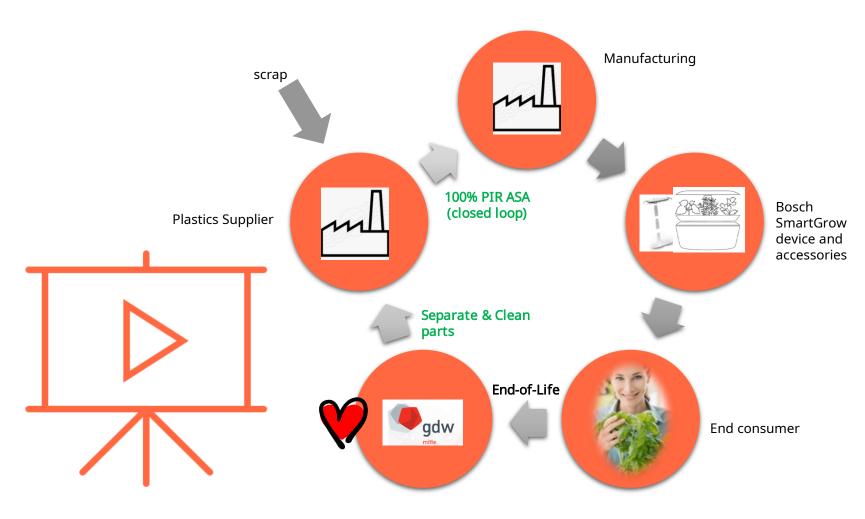
## **SmartGrow Life - Comprehensive sustainable approach from cradle to cradle**



Social organization as partners for consumables and closed loop

## SmartGrow Life: Circular Economy with closed loop (DE pilot market)

Old SmartGrows shall be collected and re-processed to make new SmartGrows



## Agenda

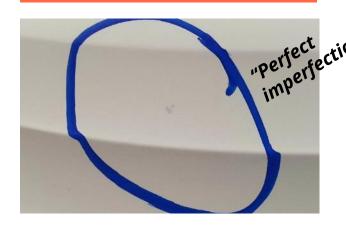
- 1. What is Bosch SmartGrow
- 2. Why is Sustainability a CORE value proposition
- 3. Our approach, journey and achievements
- 4. Two cases: Packaging and CE
- ▶ 5. Challenges and Outlook



## Recycled materials – challenges as the pioneer

Balancing Consumer expectation and acceptance – a journey and collaboration together

### Quality and productivity



#### Root causes of impurities:

- Scrap source
- Tool and line cleaning
- Pigmentation in each granule

#### Customer expectation



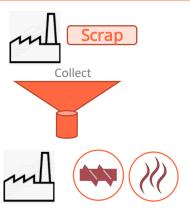
#### **Expects**

- Visible parts → virgin material
- Hidden parts tolerant

Communication

Customer **Service** 

### Supply and price



Source: Supply < Demand



## Continuous learning on Communication to improve resonance and credibility

To pursue / consider in the future

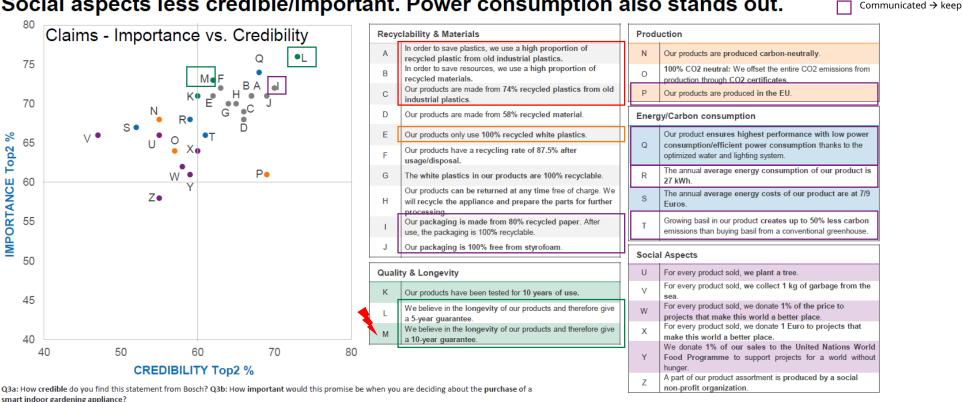
True but not communicated vet -> communicate!

True and communicated → needs to rephrase

Focus on the right topics and the right phrasing is mission-critical

Sample: Total sample (n=1579), Top2 Box values in % on 5point scale from 1="not credible at all / not important at all" to 5="very credible / very important"

## Claims around Recyclability&Materials and Quality&Longevity most convincing. Social aspects less credible/important. Power consumption also stands out.



## Outlook and next steps of our Sustainability journey Continuous improvement and learning

- 1. Extend to entire portfolio: e.g. packaging
- 2. Material → Goal: stability in quality, supply and price
- 3. Communication and positioning





Emotional

Rational

Bosch

Design Trends

Planet











B/S/H/

