



ReduSystems greenhouse coatings





THE BRIGHT SIDE OF GROWING





- Horticulture
- Sports
- Maintenance

Mardenkro – International

- Branches



Netherlands (HQ)



France



Canada



China



Japan

- 4 factories

- Local sales, support and production

- Worldwide distribution in more than 60 countries:

- North, West, East and South-Europe
- East-Africa
- South-Africa
- Middle East
- North-, Middle and South-America
- Asia
- Australia, New-Zealand



ReduSystems®

The bright side of growing



SHADING



DIFFUSION



SPECIALTIES



Control the climate

- Light
- Heat
- Diffusion



ReduSystems

Removable coatings to create optimal climate in greenhouse

6 coatings divided into 3 categories:

- Shading
- Diffusion
- Specialties

SHADING

Effective protection against excess heat and/or light:

- ReduSol: white coating for shading light and heat
- ReduHeat; high grow-light transmission and effective heat reflection



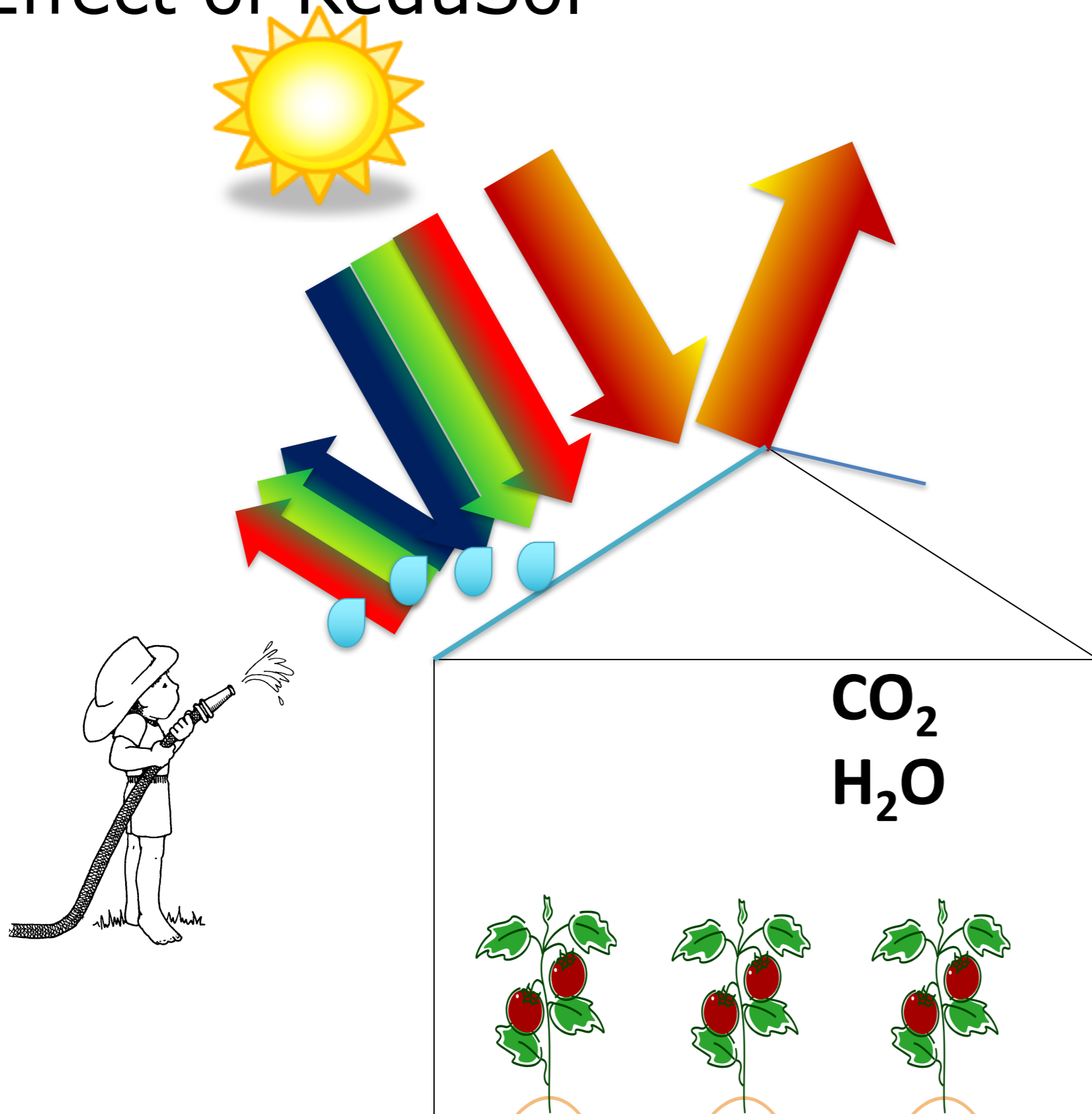
SHADING

ReduSol:

- White coating for shading light and heat
- Up to 80% shading
- Wear and frost resistant
- For glass and plastic film
- Easy to remove with ReduClean



Effect of ReduSol



SHADING

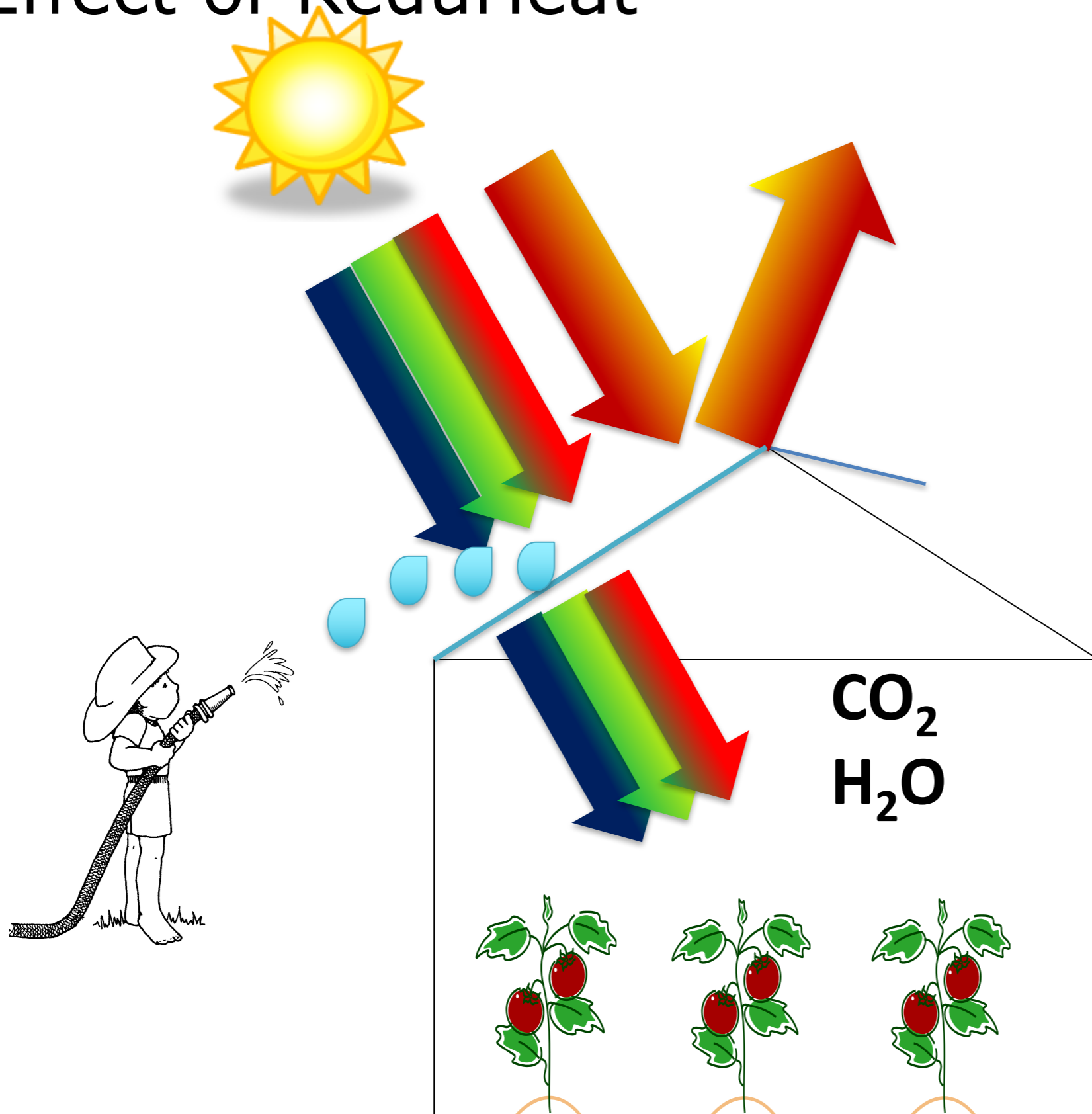


ReduHeat:

- High levels of grow-light (PAR) transmission
- High reflection of heat radiation (IR)
- Highly wear-resistance
- Easy to remove with ReduClean



Effect of ReduHeat



DIFFUSION

Maximum light diffusion with minimum grow-light:

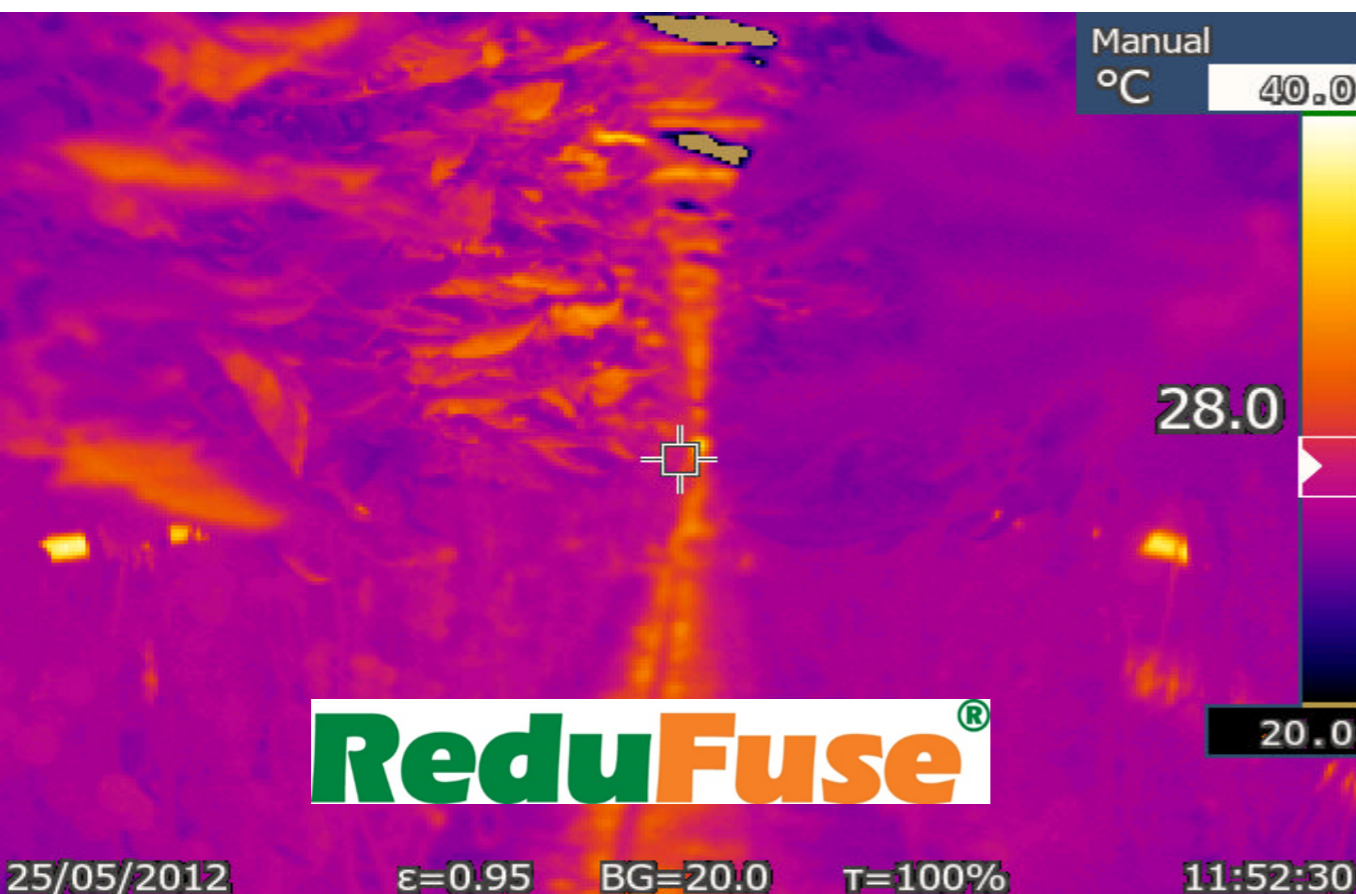
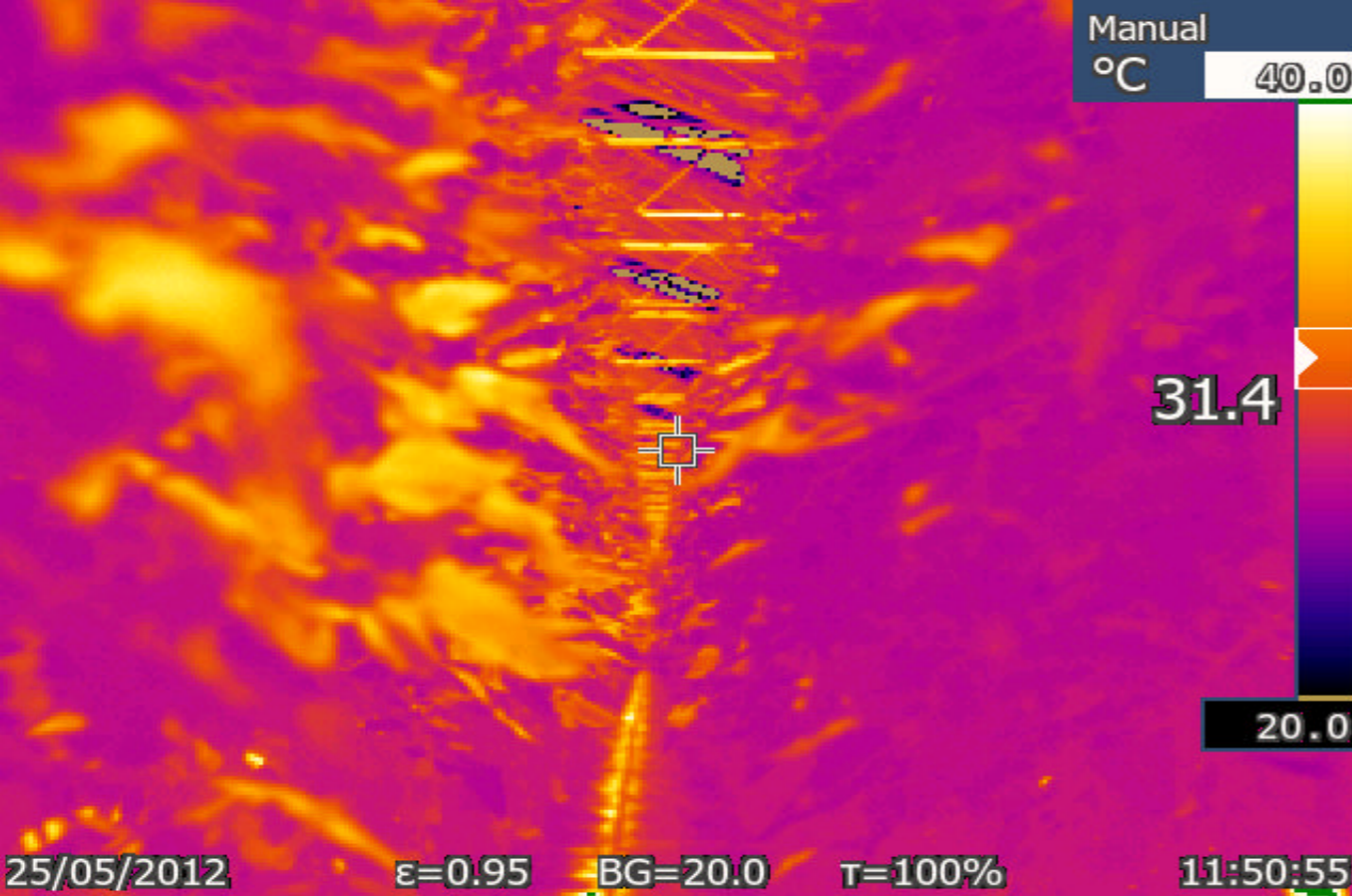
- ReduFuse: most flexible solution for light diffusion
- ReduFuse IR; optimal diffusion combined with heat reflection



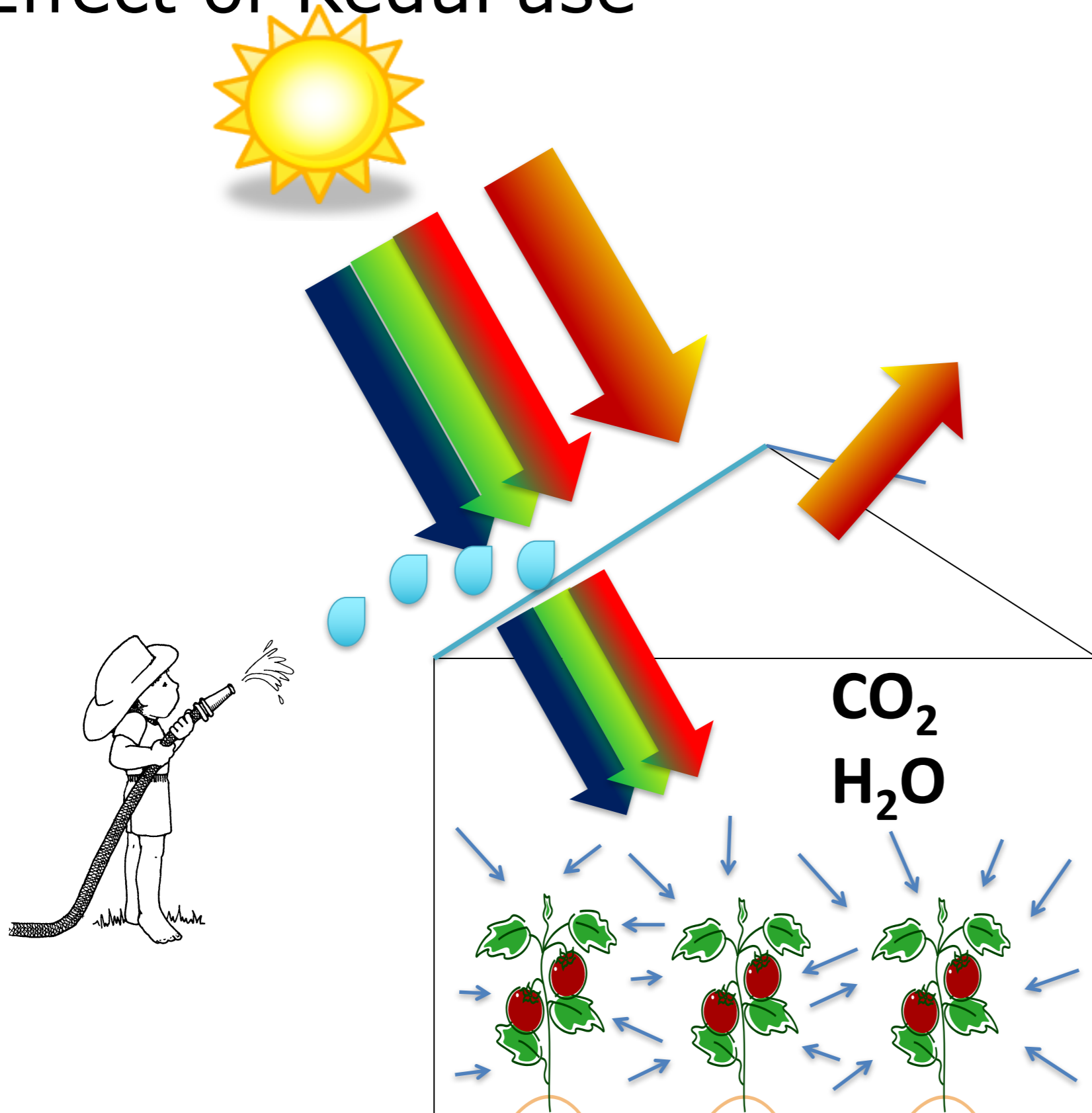
DIFFUSION

ReduFuse:

- Most flexible solution for light diffusion
- Very high light transmission
- Haze up to 85%
- Transparent during rainfall
- Highly wear resistance
- More suitable for glass
- Removable with ReduClean



Effect of ReduFuse



DIFFUSION

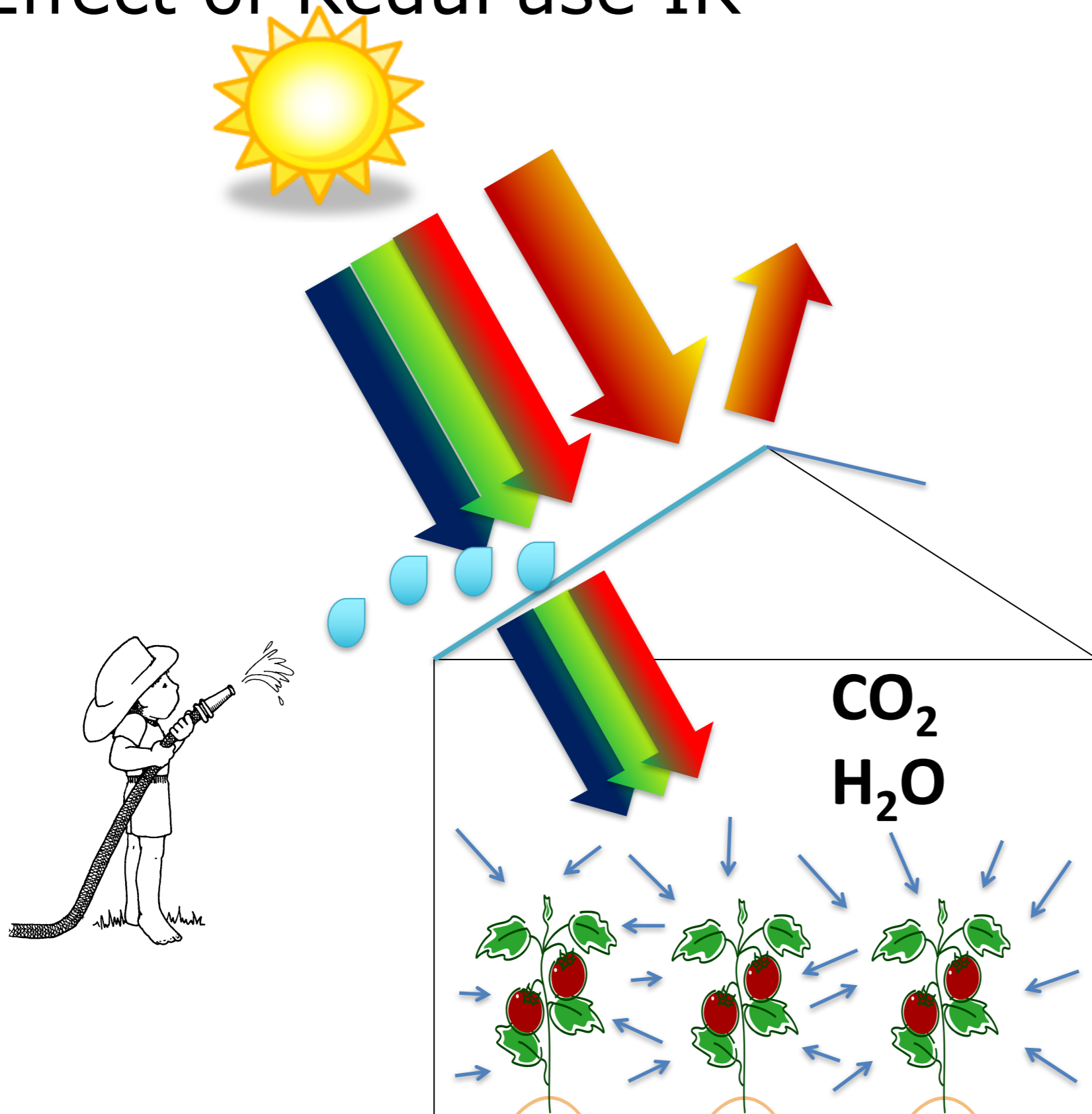
ReduFuse IR:

- Optimal diffusion combined with heat reflection
- High light transmission
- High reflection of heat radiation
- Haze up to 85%
- Easy to remove with ReduClean



ReduFuse[®]
IR

Effect of ReduFuse IR



SPECIALTIES

Where innovation see the light:

- ReduFlex Blue: photo-selective coating that reflects blue light
- ReduFlex Green: photo-selective coating that reflects green light



SPECIALTIES

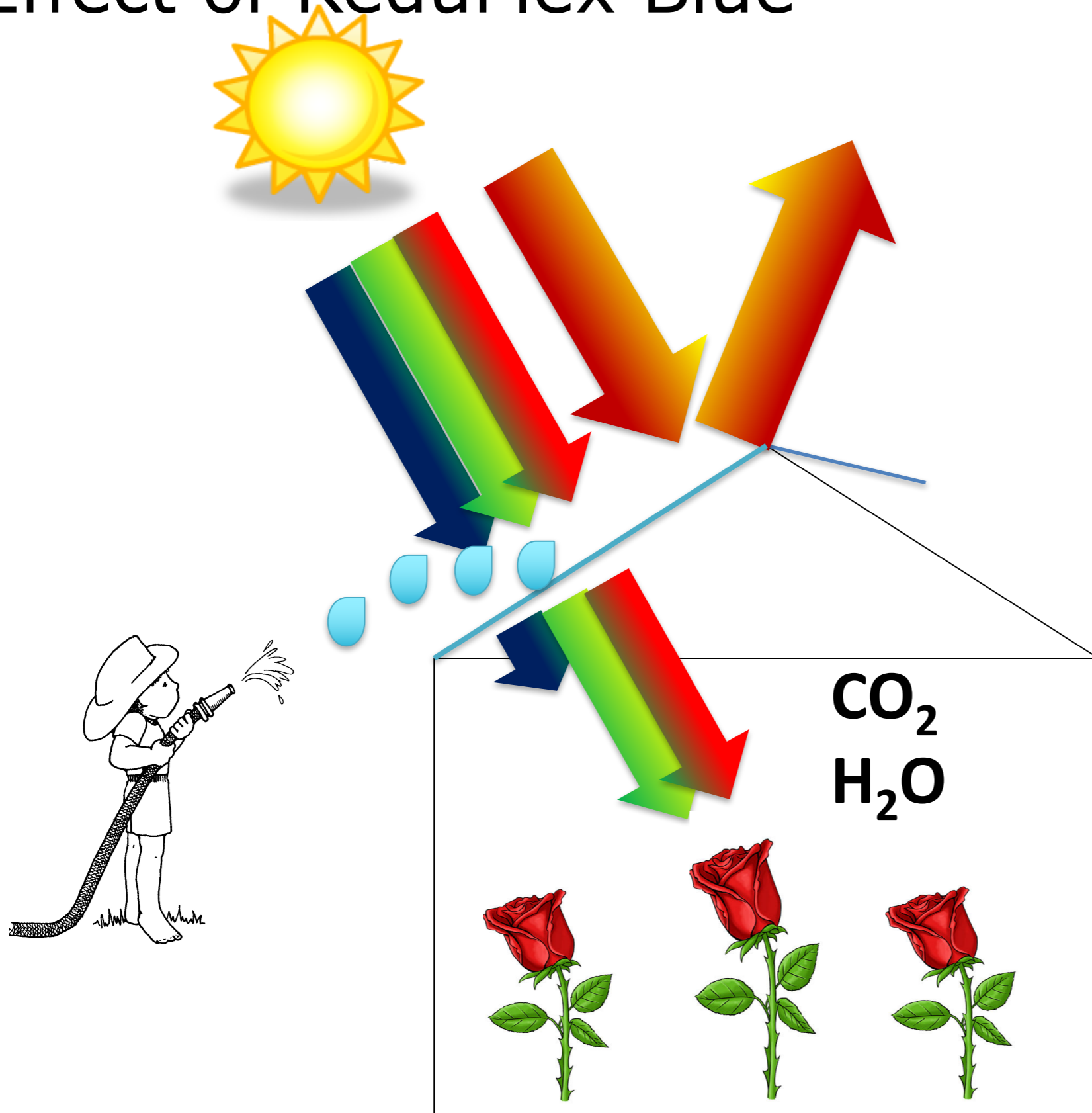


ReduFlex Blue:

- Coating that reflects large amount of blue light
- Pushes up production due to relative higher levels of red light
- Suitable for flower crops like roses
- Highly wear-resistant
- Easy to remove with ReduClean



Effect of ReduFlex Blue



More light in your greenhouse !!

The Bright Times

**BREAKING
NEWS!**

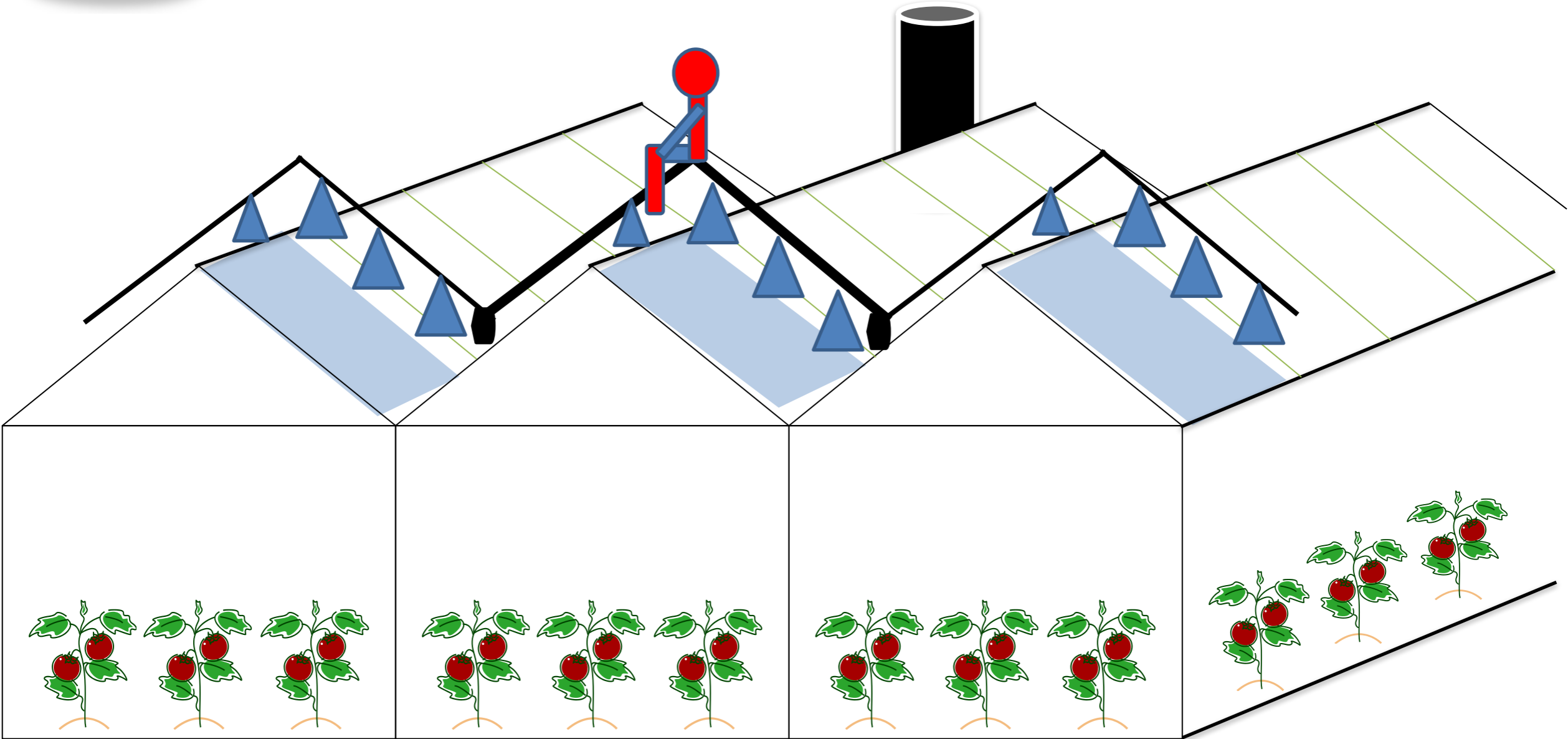
► The innovative coating AntiReflect is a real breakthrough in the field of light transmission.

Anti-Reflection (AR) available for everyone

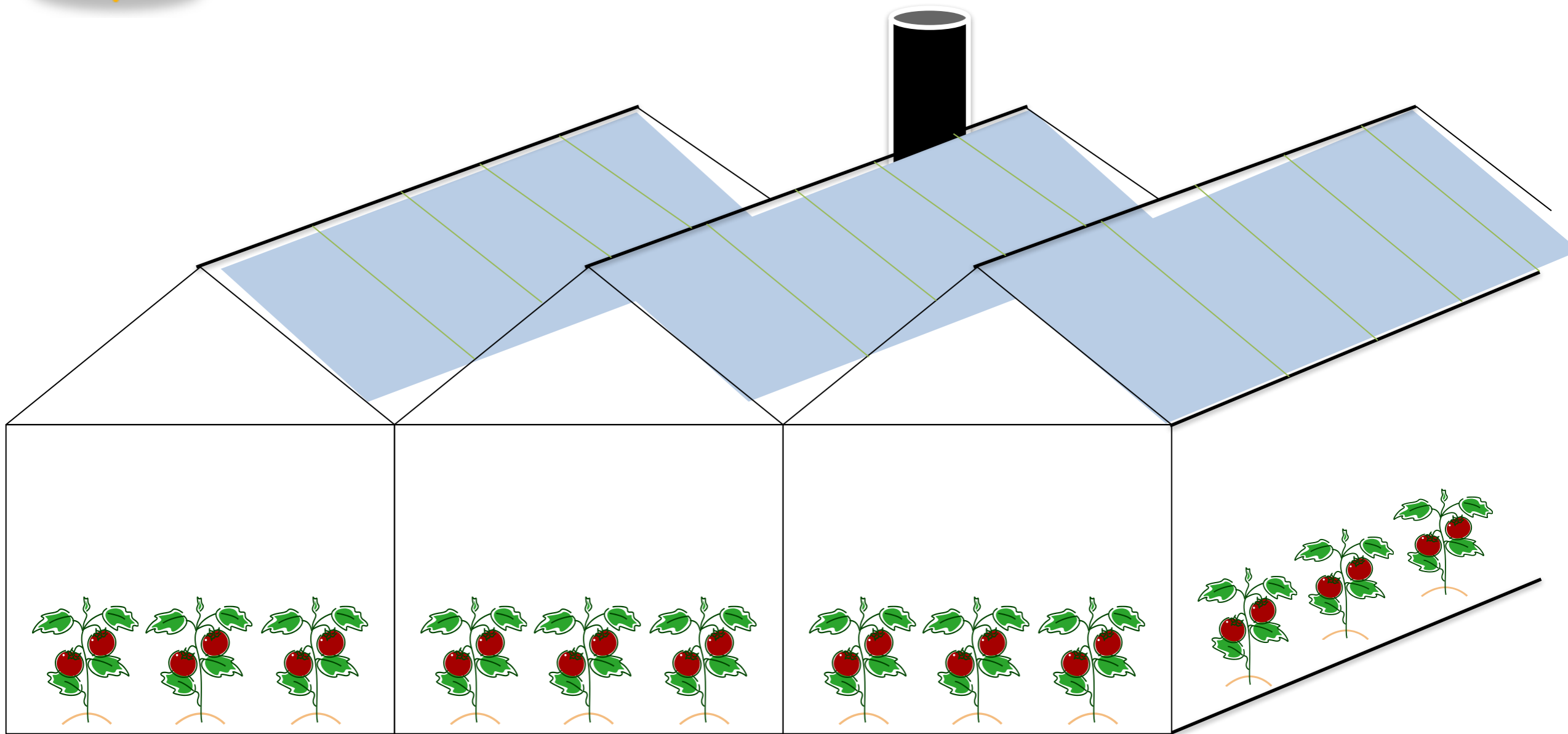
A part of the sun light reflects on greenhouse glass and therefore does not reach the crop. During new greenhouse construction the grower can choose for anti-reflective glass to reduce the reflection and to improve the light transmission. However, for existing greenhouses this is not



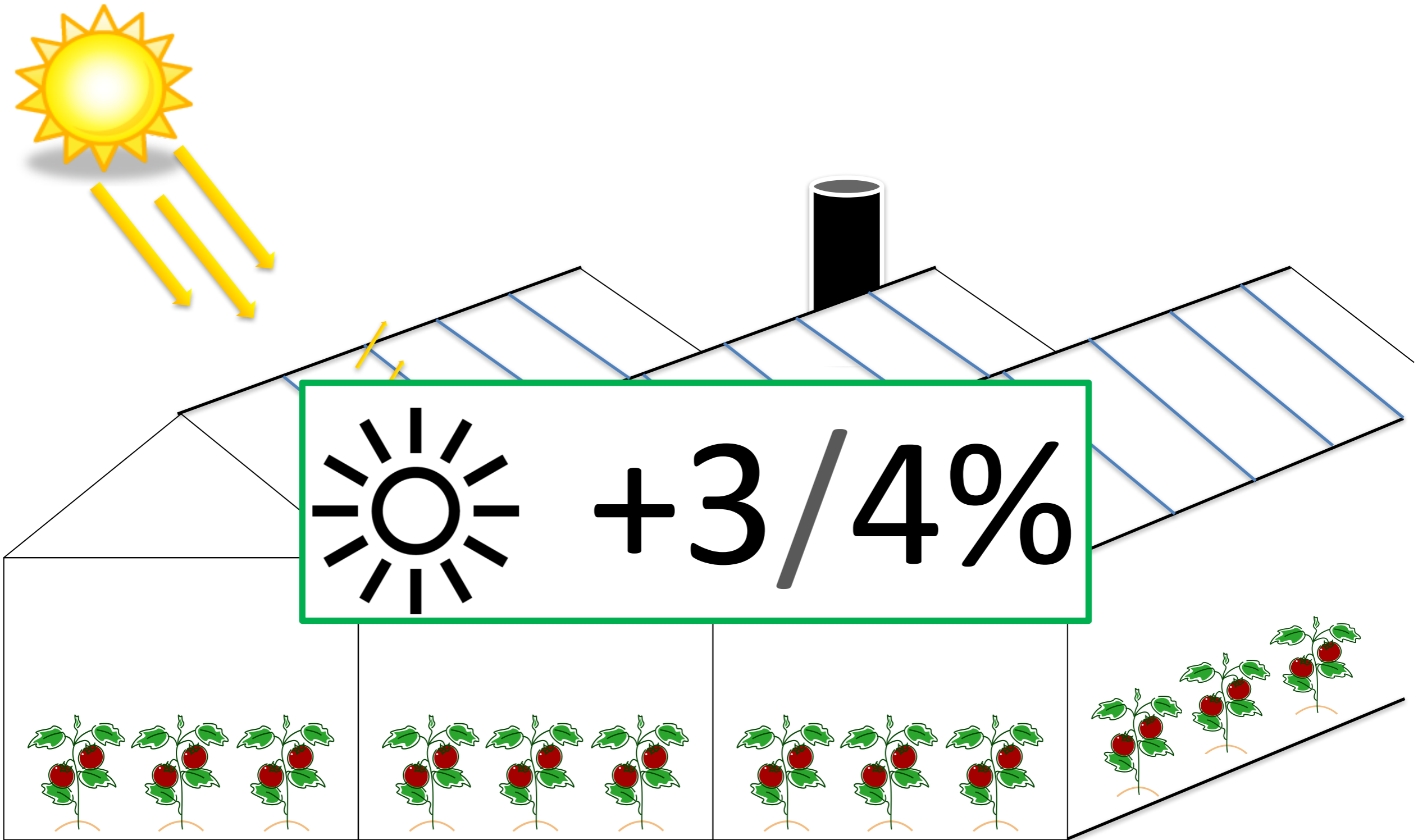
After-market Anti Reflection technology: AntiReflect



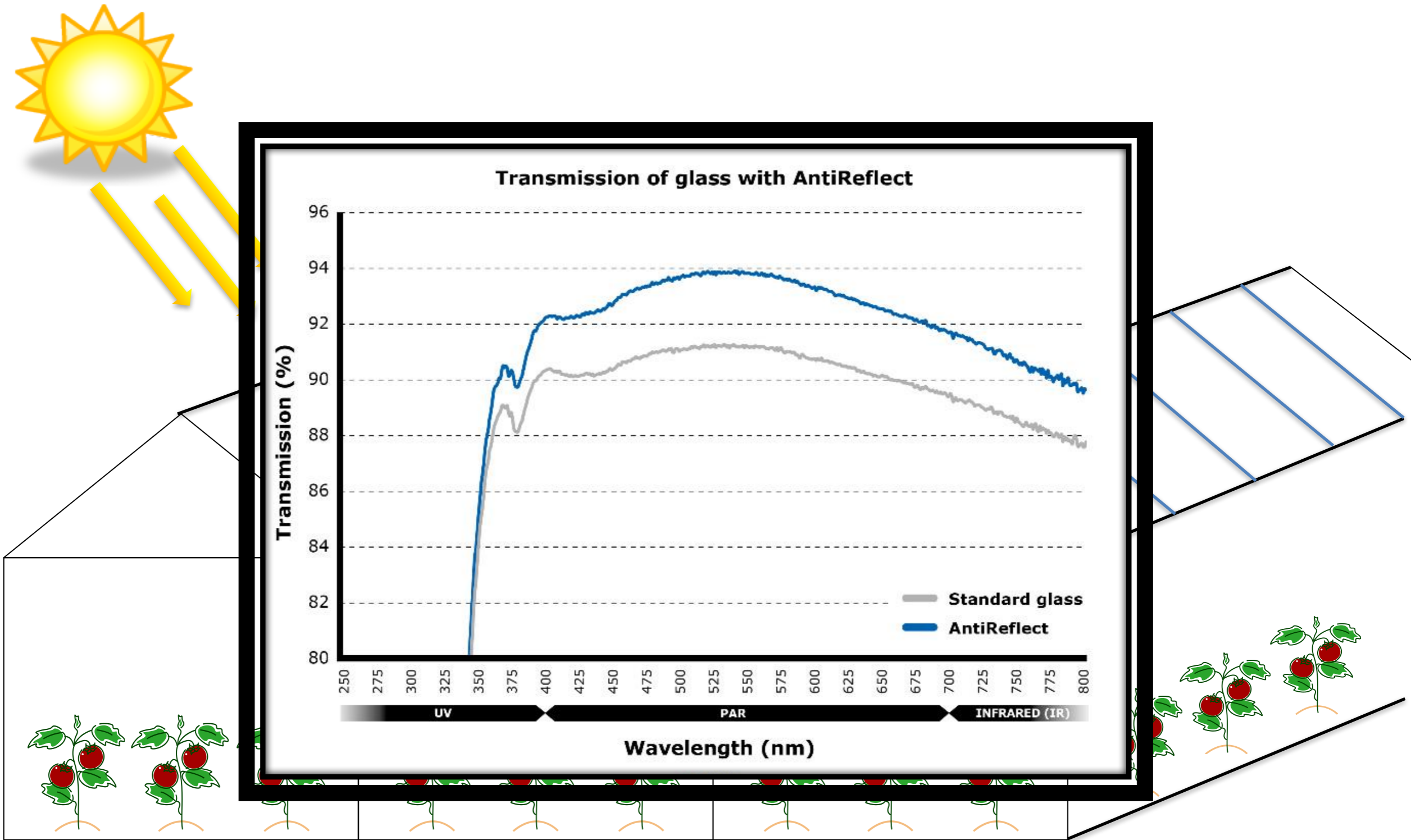
After-market Anti Reflection technology: AntiReflect



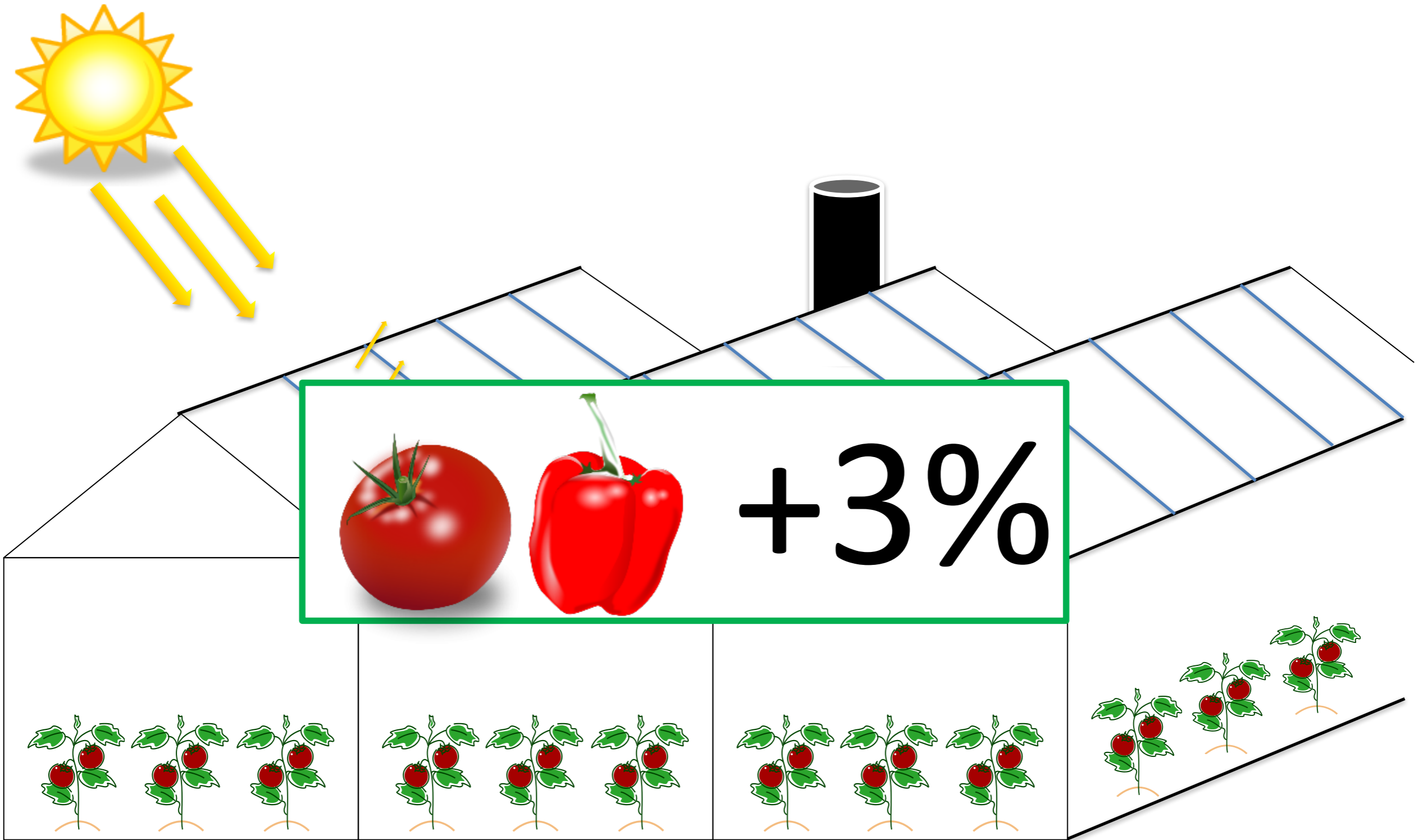
More light in the greenhouse



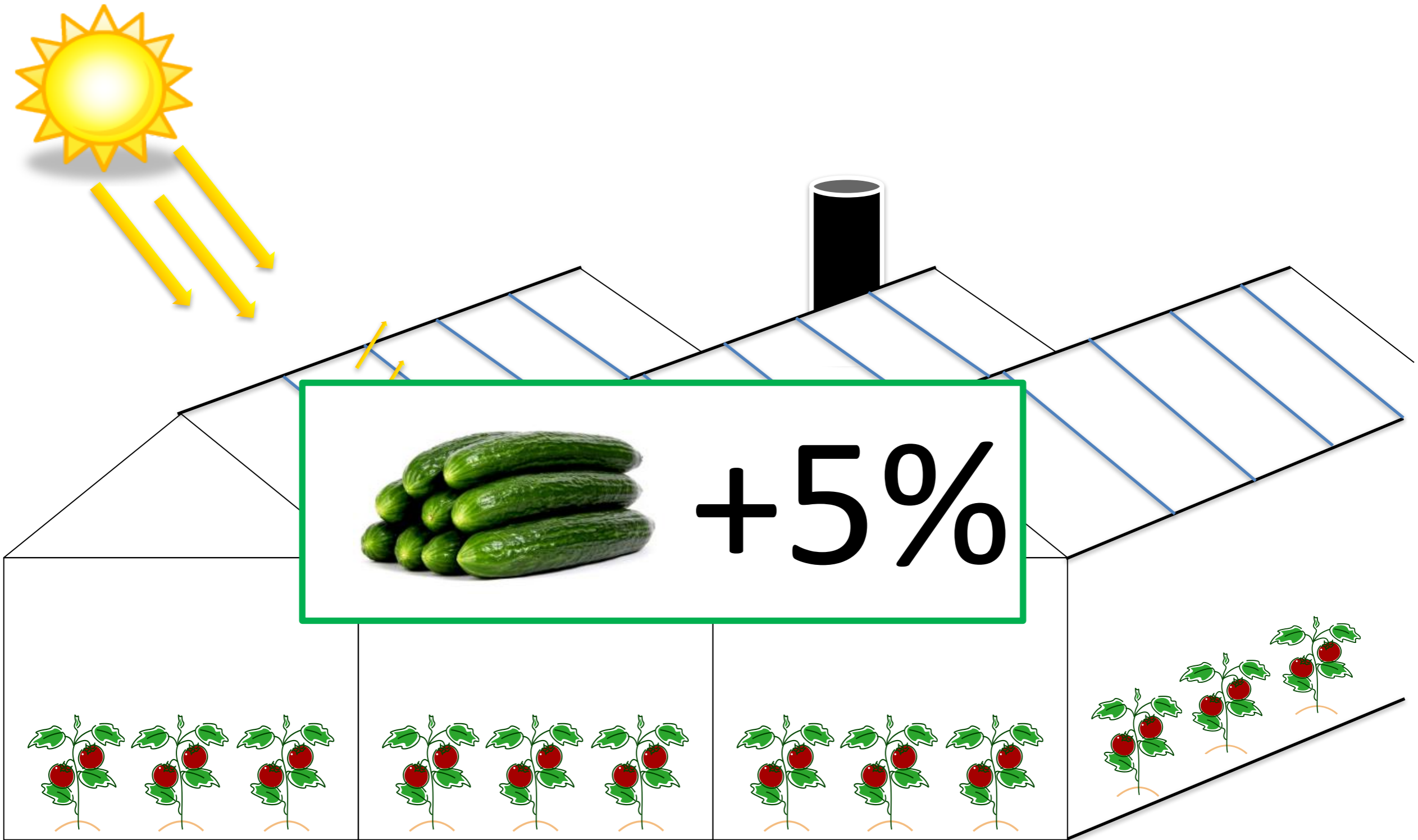
More light in the greenhouse



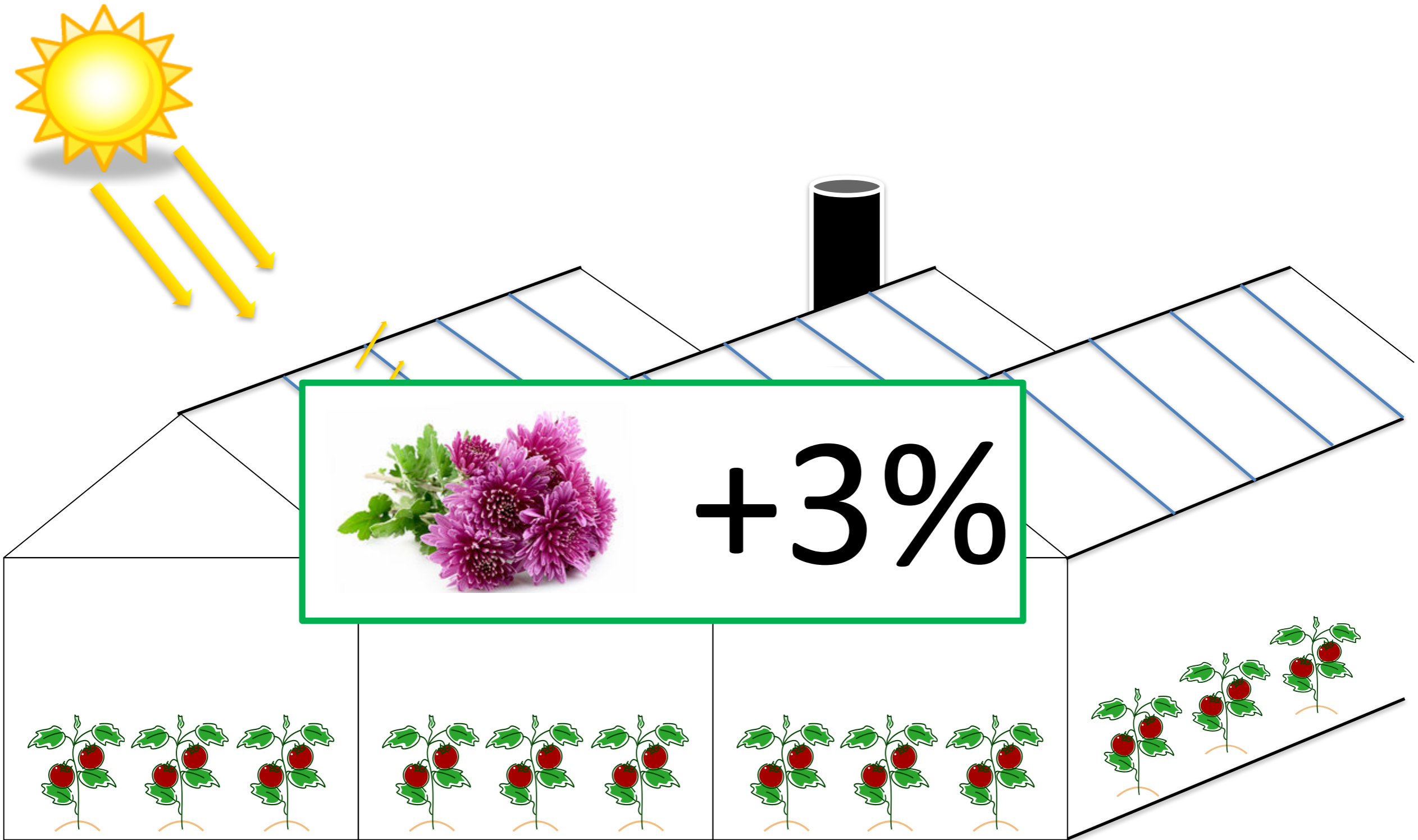
More yield tomato and sweet pepper



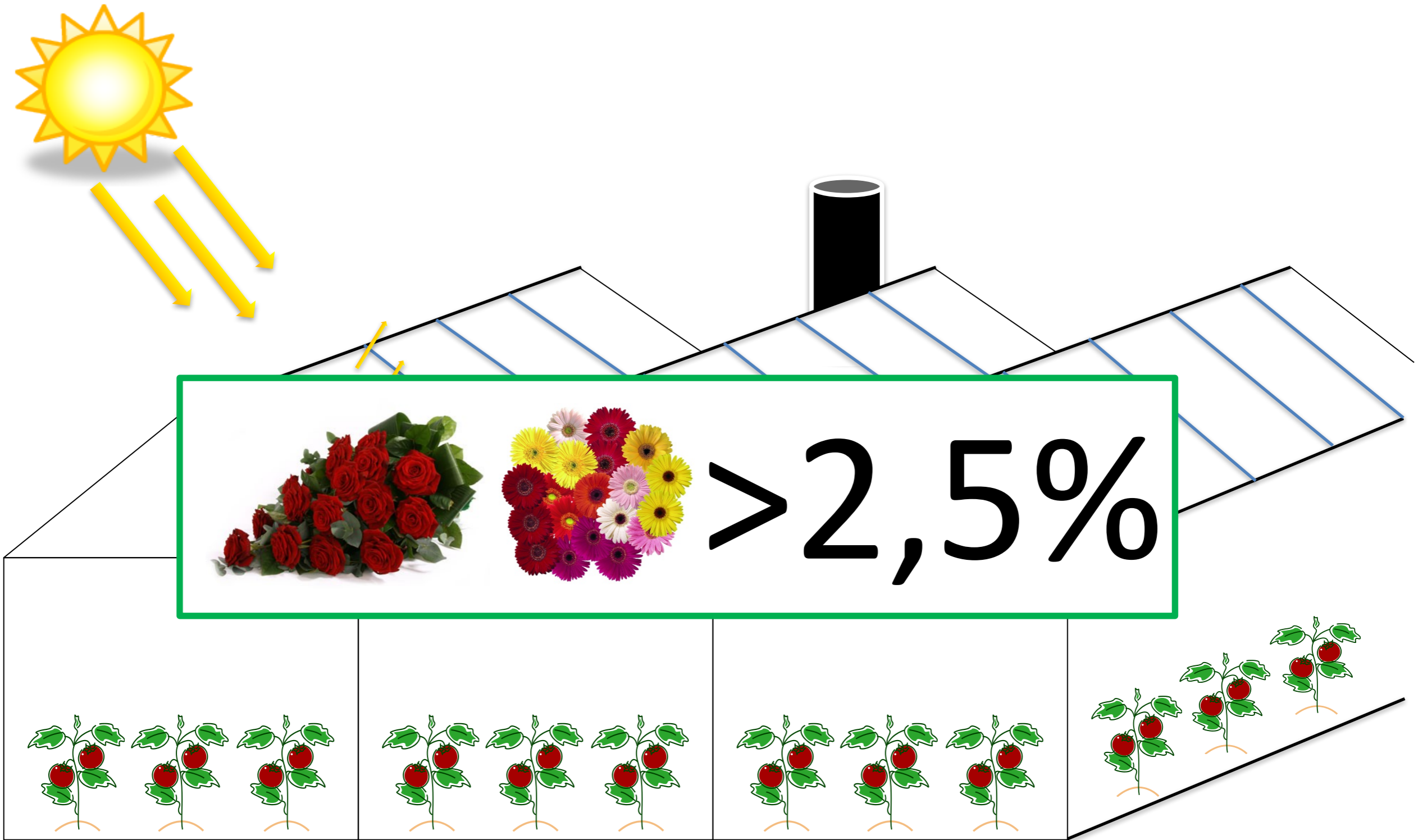
More production cucumber



More production chrysanthemum



More production rose en gerbera



AntiReflect – trials 2016/2017

- Application
- Lifetime
- Wear-resistance:
 - Weather
 - Brushing
 - Compatibility coating-ReduClean
- Measurements PAR light with/without coating



AntiReflect – test phase 2016/2017

- Start test augustus 2016
- All test gave positive results
- Application decide a part of the res
- This winter we did;
 - Dure tests
 - Light measeurments
- Product Ready-to-use delivered
- Sales starts 2018
- 50 ha is commmercial availble



APPLICATION



Different types of application:

- Machine (preferable)
- Manual
- Helicopter

APPLICATION



Manual application:

- Pressure pump
- Spray gun /boom



APPLICATION

Cleaning:

- ReduClean
- Mix with water 1:7
- Spray on coating
- Wait for rain





R&D with:

- Mardenkro laboratory
- Wageningen UR
- Crop consultants
- Growers worldwide

CONSULTANCY



- Light & temperature measurements
- Tailor made advice
- Growing tips
- Practical research
- Trials
- Show added value



ReduWizard

Online tool to choose the right product for your situation

- Choose location
- Choose crop
- Choose greenhouse type

- ReduWizard combines input with local weather databases

www.thebrightsideofgrowing.com

ReduSystems[®]

The bright side of growing

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Country	Make a choice <input type="text"/>
Profession	Make a choice <input type="text"/>
<input type="submit" value="Submit"/>	

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For more information visit www.redusystems.com



ReduSystems is a group of removable coatings that gives the grower more control over their greenhouse climate. ReduSystems coatings are easy to apply, highly wear-resistant and can be removed at any time. No matter where in the world a crop is grown, ReduSystems offers crop specific value with proven products and specialized solutions.

www.redusystems.com

- Product information
- Technical articles
- References

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ReduSystems®

The bright side of growing



ReduSystems®
Removable coatings

NEW
Product
Wizard



Use of ReduSystems®
Various methods



Consultancy
User experiences



Know-how
Research and innovation



Other products
Other horticultural products



The team
The ReduSystems® team