# One Billion Pounds: Planning to Cut Food Waste in Half by 2030

MAP Conference – September 27, 2024





# PRESENTERS



### > Presenters

- Stephanie Osborn, AICP, Planning Consultant at Giffels Webster, Project Manager for the Southfield Food Waste Elimination Project, Make Food Not Waste board member
- Matt Naud, Resource Recycling Systems, Make Food Not Waste Board President
- Alex Bollin, Planner, City of Southfield



- Have heard about the issue of food waste?
- Are you representing a city or township? A county? A planning consulting firm?
- Work in a community that has created a sustainability plan?
- Has a program to divert food waste from landfills?
- Likes to eat?



### >> Agenda

- Overview of the state's food waste goal
- Planning to eliminate food waste in Southfield
- Lessons in planning for sustainability
- Q&A



# FOOD WASTE



Food waste is food that is not ultimately consumed by humans and is sent to a landfill, such as plate waste, spoiled food, or peels and rinds considered inedible

### Food waste can be

- Prevented via behavior change, upcycling, and donation
- **Diverted** to composting or digestion facilities



- > 38% of food supply goes to waste
- Average person wastes I pound of food per day
- Food = 25% of landfills, 58% of landfill emissions
- Michigan landfills more than 2 billion pounds of food each year
- > 11.4% of Michiganders face **food insecurity**





# **A CLIMATE** SOLUTION



### Reducing food waste = pulling the emergency break on climate change

- Tangible Ο
- Doable 0

Cost-effective

| NEW YORK TIMES BESTSELLER                                                                                      | SOLUTION                    |
|----------------------------------------------------------------------------------------------------------------|-----------------------------|
| DRAWDOWN<br>THE MOST COMPREHENSIVE<br>Plan ever proposed to<br>Reverse global warming<br>Edited by Paul Hawken | Reduced Food Waste          |
|                                                                                                                | Health and Education        |
|                                                                                                                | Plant-Rich Diets            |
|                                                                                                                | Refrigerant Management      |
| 0                                                                                                              | Tropical Forest Restoration |



- So many other benefits to reducing food waste!
  - Saves landfill space
  - Reduces emissions from transporting food
  - Reduces methane emissions from decomposition in landfills
  - Uses resources (water, nutrients, soil, labor) as intended for food
  - Greater household savings leading to reduced food insecurity



### > And there's more!

- Increases ability to retain moisture in soil → reduced flooding and erosion; reduced need for watering
- O Increased nutrients in soil → higher nutrient food
- Saves money by reducing need for fertilizers
- Starts a conversation on sustainable and mindful consumption and waste management
- Opens the door to other sustainability practices

# GOVERNMENT GOALS



International Day of Awareness on Food Loss and Waste Reduction 29 September

### U.S. 2030 Food Loss and Waste Reduction Goal

On September 16, 2015, the U.S. Department of Agriculture (USDA) and EPA announced the U.S. 2030 Food Loss and Waste Reduction goal, the first-ever domestic goal to reduce food loss and waste. The goal seeks to cut food loss and waste in half by the year 2030.

USDA & EPA

**FGIF** 

### **Food Waste Recovery**

Cutting food waste in half by 2030, is one of the key recommendations for Michigan to achieving carbon neutrality.

#### **Key Strategies**

- Buy clean, buy Michigan Strengthen public and private-sector procurement programs to favor the use of low-carbon and circular-economy products and identify opportunities to support disadvantaged businesses in procurement. Encourage the production and purchase of materials made by Michigan workers.
- Recycling and waste Triple the state's recycling rate to 45 percent and <u>cut food loss</u> and waste in half by 2030. Expand on efforts like 'Next Cycle' to develop markets for recycled materials.

MI Healthy Climate

# What is SDG Target 12.3?

Target 12.3 of the United Nations' Sustainable Development Goals calls on the world to "halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses" by 2030.

**United Nations** 



# PROJECT BACKGROUND



### > Objective

- Identify how to prevent, rescue, share, and divert all food waste in a city
- Create model for other Michigan cities
- Pilot study authorized by Southfield City Council in December 2023, funded by EGLE Pollution Prevention Program



# PROJECT BACKGROUND

### **CRAIN'S LIST**

Nonprofits & Philanthropy

# A Detroit nonprofit wants to eliminate all of Southfield's food waste. That's 15K tons.

By Anna Fifelski

🗇 Reprints 🍈 Share



Credit: Make Food Not Waste.

Make Food Not Waste's last community feast was held in Eastern Market Shed 5 in 2019.

## SOUTHFIELD

Ontonagon

Iron

Gogebic



- Oakland County
- 26.6 Square Miles
- >10,000 Businesses
- Daytime Population: >175,000
- Population: 76,618\* \*based on July 2020 SEMCOG data





# FOOD WASTE AND RESCUE POTENTIAL



46% RESIDENTIAL 35% RESTAURANTS 5% HEALTHCARE 5% HOSPITALITY 5% GROCERS & MARKETS 2% COLLEGES & UNIVERSITIES 1% K-12 SCHOOLS 1% MANUFACTURING & PROCESSORS <1% EVENTS & RECREATION <1% WHOLESALERS & DISTRIBUTORS 4% CORRECTIONAL FACILITIES

BREEN HEITURE SHUTTER AND SHUT

410.000

The residential sector generates nearly **7,000 tons** of food waste **per year.** 

Donation of **surplus food** can help meet the immediate needs of **those facing food insecurity**.

MAXIUMUM POTENTIAL SCENARIO

KEY FACTS

9% food insecurity in Southfield

15K tons of food waste in Southfield

> 40% of all food in the U.S. is wasted

\$4.4M

of unmet meals in Southfield

\$3.8M

value of food rescue potential in Southfield

8%

of global greenhouse gas emissions come from food waste



MAKE FOOD Not Waste



# CONTRIBUTORS



### **Project Lead**



#### **City Support**







**Additional Support** 

EGLE











CONTRIBUTORS







# METHODS



### > Project team

- 3 convenings
- 2 workshops: Blue sky thinking + logistics
- Additional meetings, emails
- Resident and business survey
- > Draft writing and review

# **KEY LEARNINGS**

- Survey of people who live and work in Southfield (534 respondents)
  - 86% would participate in curbside compost collection
  - 47% willing to pay up to \$20/month for service
- Interviews with **food-based businesses** (30 restaurants, 3 grocery stores)
  - High interest in compost collection
  - Request for more information on **donating** food
  - See opportunities to engage staff

# **KEY LEARNINGS**

- Community engagement, food rescue, compost collection providers exist
- National best practices exist for many plan components
- Multi-family compost collection best practices lacking
- Change in waste hauling service prevented cost estimating for curbside collection



- Preventing food waste has greatest effect
  - Residents: **\$38 million** in financial savings if consume all edible, purchased

food

- Restaurants: **\$1.5 million** in food costs savings
- More diversion = more results
  - 100% diversion prevents 20,000 tons of emissions, \$3.8 million in social cost
  - 50% diversion prevents 10,000 tons of emissions, \$1.9 million in social cost

# **PLAN HIGHLIGHTS**

• Follows the **EPA's guidance** on

Prevention -> Rescue -> Composting



# **PLAN HIGHLIGHTS**

• Uses the Motivation-Ability-

Opportunity **behavior** 

change framework



(Van Dooren, Mensink, Eversteijn, & Schrignen, 2019)

# **PLAN HIGHLIGHTS**

• Outlines action steps and associated

**costs** to reach residents, businesses, schools/institutions, and other sites

• Describes role of **City of Southfield** 



Southfield Community Feast, April 2024



A Blueprint to Zero Food Waste in Southfield MAKE Food Not WASTE

#### MAP 4. Food Access: Southfield



#### TABLE 3. Timing of Activities: Supporting Strategies

| Strategy                                                                           |  | Year 1 |    |    |    | Year 2 |    |    |    | Year 3 |    |   |
|------------------------------------------------------------------------------------|--|--------|----|----|----|--------|----|----|----|--------|----|---|
|                                                                                    |  | Q2     | Q3 | Q4 | Q1 | Q2     | Q3 | Q4 | Q1 | Q2     | Q3 | Q |
| 01 Communication campaigns                                                         |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A Overall campaign: Creating a culture of zero food waste in<br>Southfield      |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.1 Promote the campaign website and online resource hub                        |  |        |    |    |    |        |    |    |    |        |    |   |
| Design materials                                                                   |  |        |    |    |    |        |    |    |    |        |    |   |
| Mail materials                                                                     |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.2 Promote the campaign through the city newsletter                            |  |        |    |    |    |        |    |    |    |        |    |   |
| Develop and share material                                                         |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.3 Promote the campaign through social media                                   |  |        |    |    |    |        |    |    |    |        |    |   |
| Develop and share material                                                         |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.4 Promote the campaign through the press                                      |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.5 Promote local champions                                                     |  |        |    |    |    |        |    |    |    |        |    |   |
| Identify local champions                                                           |  |        |    |    |    |        |    |    |    |        |    |   |
| Train local champions                                                              |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.6 Create ways for people to make a public commitment to<br>address food waste |  |        |    |    |    |        |    |    |    |        |    |   |
| Create and print yard signs, flags, and door signs                                 |  |        |    |    |    |        |    |    |    |        |    |   |
| Create online pledge                                                               |  |        |    |    |    |        |    |    |    |        |    |   |
| Promote piedge                                                                     |  |        |    |    |    |        |    |    |    |        |    |   |
| Distribute signs and flags                                                         |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.A.7 Host a citywide food waste summit                                           |  |        |    |    |    |        |    |    |    |        |    |   |
| Planning                                                                           |  |        |    |    |    |        |    |    |    |        |    |   |
| Promotion                                                                          |  |        |    |    |    |        |    |    |    |        |    |   |
| Event                                                                              |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.8 Household prevention communication campaign                                   |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.8.1 Promote the prevention campaign via mailers                                 |  |        |    |    |    |        |    |    |    |        |    |   |
| Design, print, and label materials                                                 |  |        |    |    |    |        |    |    |    |        |    |   |
| Mail materials                                                                     |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.8.2 Promote the campaign through the city newsletter                            |  |        |    |    |    |        |    |    |    |        |    |   |
| Develop and share material                                                         |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.8.3 Promote the campaign through social media                                   |  |        |    |    |    |        |    |    |    |        |    |   |
| Develop and share material                                                         |  |        |    |    |    |        |    |    |    |        |    |   |
| 01.8.4 Promote the campaign through the press                                      |  |        |    |    |    |        |    |    |    |        |    |   |

The following strategies will set the stage and support the strategies used to address food waste by the various generators in the city:

#### 01 Communication campaigns

This strategy includes a broad communications campaign focused on raising awareness and motivating action, followed by materials for various food waste prevention and diversion strategies across groupings of food waste generators: residents, food-based businesses, schools, offices, and public facilities and events.

#### 01.A Overall campaign: Creating a culture of zero food waste in Southfield

Completely eliminating food waste in Southfield will require everyone, everywhere, all the time, to prevent food waste and divert it from landfills. An overarching communication campaign that raises awareness of the issue and motivates everyone to participate is needed. This campaign will set the stage for the initiative and will be seen throughout the city via the city's website and social media platforms, in the press, and on signs in retail stores. It will also be seen at events with neighborhood ambassadors and a citywide summit.

In order to develop a strong communications campaign for this project, the team reviewed other food waste reduction campaigns, conducted surveys with Southfield residents and businesses, and interviewed campaign managers from other areas in the U.S. The Work Department's report of these findings and the survey results can be found on <u>Appendix E</u>.

The resulting program name is "Every Bit Counts." This title underscores that eliminating food waste requires everyone's participation as well as all of the solutions from prevention to organics recycling. Online, information about "Every Bit Counts" will live on <u>the MENW website</u> and will include general information about the initiative and the need to prevent and divert food waste. A sub-page for Southfield-specific resources will be linked on the Every Bit Counts web page and will be accessible by visiting SouthfieldCounts.org. As more oftes are brought into Every Bit Counts, sub-pages for those oftes (i.e. DearbornCounts.org, CantonCounts.org, etc) will have resources and information specific to those jurisdictions.

With this foundation in place, the program will have an outreach campaign that will change over time. The initial campaign, created by Modish Oreative Co., is titled "Dumb Problem. Easy Solution." The campaign rests on the following concepts:

- Food waste is considered by many to be the "world's dumbest environmental problem" because landfilled food waste causes significant harm while being relatively easy to avoid.
- People seek entertainment, often tuning out messages that feel moralizing, negative, or overly educational.

The "Dumb Problem. Easy Solution." campaign takes a humorous approach to draw people into the issue and encourage them to become involved.



An example billboard for the initial communication campaign, "Dumb Problem. Easy Solution."



#### Budgets | Year 1

#### Year 1

| fedri                                                                           |                  |                                      |  |  |  |  |
|---------------------------------------------------------------------------------|------------------|--------------------------------------|--|--|--|--|
| TABLE 10. Budgets: Supporting Strategies, Year 1                                |                  |                                      |  |  |  |  |
| Strategy                                                                        | Cost             | Responsible Party                    |  |  |  |  |
| 01 Communication campaigns                                                      |                  |                                      |  |  |  |  |
| 01.A Overall campaign: Creating a culture of zero food waste in Southfield      |                  |                                      |  |  |  |  |
| Design fee for all year 1 materials (mailers, yard and door signs, etc.)        | \$15,000         | Design Firm                          |  |  |  |  |
| 01.A.1 Promote the campaign website and online resource hub via mailer          | sent to residenc | es and businesses                    |  |  |  |  |
| Design, print, label, and mail materials                                        | \$32,667         | Mailing House                        |  |  |  |  |
| Google ad spend                                                                 | \$7,200          | Project Manager                      |  |  |  |  |
| 01.A.2 Promote the campaign through the city newsletter                         |                  |                                      |  |  |  |  |
| Develop and share material                                                      | Included         | Design Firm, Project Manager         |  |  |  |  |
| 01.A.3 Promote the campaign through social media                                |                  |                                      |  |  |  |  |
| Develop and share material                                                      | Included         | Design Firm, Project Manager         |  |  |  |  |
| 01.A.4 Promote the campaign through the press                                   |                  |                                      |  |  |  |  |
| Labor                                                                           | Included         | City Communications, Project Manager |  |  |  |  |
| Southfield newspaper ad                                                         | \$3,798          | City Communications, Project Manager |  |  |  |  |
| 01.A.5 Promote local champions                                                  |                  |                                      |  |  |  |  |
| Identify local champions                                                        | Included         | Residential Coordinator              |  |  |  |  |
| Train local champions (pre-created social media toolkits, resources)            | Included         | Residential Coordinator              |  |  |  |  |
| 01.A.6 Create ways for people to make a public commitment to address food waste |                  |                                      |  |  |  |  |
| Design yard and door signs                                                      | Included         | Design Firm                          |  |  |  |  |
| Print yard signs                                                                | \$34,000         | Residential Coordinator              |  |  |  |  |
| Print signs for apartment doors                                                 | \$1,530          | Residential Coordinator              |  |  |  |  |
| Create online pledge                                                            | Included         | Residential Coordinator              |  |  |  |  |
| Promote pledge                                                                  | Included         | Residential Coordinator              |  |  |  |  |
| Distribute signs                                                                | Included         | Residential Coordinator              |  |  |  |  |

#### **Supporting Strategies**

TABLE 26. Key Performance Indicators by Task: Supporting Strategies

| Task                                                                                                    | Key Performance Indicators (KPIs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 01 Communication campaigns                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 01.4 Overall campaign: Creating<br>a culture of zero food waste in<br>Southfield                        | Development of communication plan and media campaign, Cost, Launch of<br>communication campaign, Number of hits per week on the website and online resource<br>hub, Number of people receiving the city newsletter, Number of social media posts,<br>Number of people liking and sharing the social media posts, Number of grocery and retail<br>stores with the campaign signage, Number of local champions sharing materials, Number<br>of people attending the citywide summit, Number of people making a public commitment,<br>Number of yard/door signs distributed, Evaluations from the summit and survey followign<br>the campaign launch showing an increase in awareness of food waste issues, willingness<br>to act to address food waste, and sense of efficacy to act to address food waste                                                                                                                                     |  |
| 01.8 Household prevention<br>communication campaign                                                     | Development of household prevention communication plan and media campaign, Cost,<br>Launch of prevention communication campaign, Number of hits per week on the website<br>and online resource hub, Number of people receiving the city newsletter, Number of social<br>media posts, Number of people liking and sharing the social media posts, Number of<br>grocery and retail stores with the campaign signage, Number of local champions sharing<br>materials, Number of people attending the citywide summit, Number of people making a<br>public commitment, Number of yard/door signs distributed, Evaluations from the summit<br>and survey followign the campaign launch showing an increase in awareness of ways to<br>prevent food waste, willingness to act to address food waste, and sense of efficacy to act<br>to address food waste. Use of materials in food waste prevention kits, Self-reported food<br>waste prevention |  |
| 01.C Household diversion<br>communication campaign                                                      | Development of household diversion communication plan and media campaign, Oost,<br>Launch of diversion communication campaign, Number of hits per week on the website<br>and online resource hub, Number of people receiving the city newsletter, Number of social<br>media posts, Number of people liking and sharing the social media posts, Number of local<br>champions sharing materials, Number of people making a public commitment, Number<br>of yard/door signs distributed, Survey followign the campaign launch showing an increase<br>in awareness of ways to divert food waste, willingness to act to address food waste, and<br>sense of efficacy to act to address food waste, Participation rates in curbside food scrap<br>collection                                                                                                                                                                                       |  |
| 01.D Prevention and diversion<br>communication campaign for<br>spaces where food is outside of<br>homes | Development of prevention and diversion communication campaign, Oost, Launch of<br>prevention and diversion communication campaign, Number of places hosting lunch<br>and learns/workshops for employees, Number of lunch and learns/workshops hosted,<br>Reported costs savings in food purchasing by food-based businesses, Reported pounds<br>of food diverted from landfills via composting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 01.E Maintenance communication<br>campaign                                                              | Number of times the campaign is refreshed, Cost, Launch of refreshed campaigns,<br>Number of people receiving the city newsletter, Number of social media posts, Number<br>of people liking and sharing the social media posts, Number of local champions sharing<br>materials, Number of people making a public commitment, Number of yard/door signs<br>distributed, Participation rates in curbside food scrap collection, Self-reported food waste<br>prevention                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |

#### Model Ordinance on Backyard Composting

The following language is an example ordinance that could be added to Southfield's Code of Ordinances to promote backyard composting while protecting neighbors from nuisances. This language is based on language used in Farmington Hills, Michigan. It should be reviewed by City Council and refined as needed. These standards related to composting could be placed in a new article, Article XI, of Chapter 111 - Nuisances of Title XI - Police Regulations of the city's code or elsewhere as staff and City Council see fit.

#### Draft Language:

- (1) Purpose. This ordinance is intended to:
  - (a) Protect environmental and public health, safety, comfort, convenience, and the general welfare of oitizens of Southfield;
  - (b) Establish powers, duties, rules, regulations, and standards for the location and operation of backyard and small compost sites in residential areas;
  - (o) Promote a program of waste reduction through source separation of organic materials from mixed municipal solid waste;
  - (d) Provide for the administration and enforcement of this ordinance.

#### (2) Definitions.

- (a) "Backyard compost site" means a site no greater than four oubic yards used to compost food soraps, garden wastes, weeds, lawn outtings, leaves, and prunings from a single family or household
- (b) "Composting" means the controlled microbial degradation of source separated compostable material to yield a humus-like product or mulch to be used as a soil amendment
- (c) "Mixed municipal solid waste" means garbage, refuse, and other solid waste from residential, commercial and community activities that the generator of the waste aggregates for collection
- (d) "Food scraps" means organic material resulting from the handling, preparation, cooking, and consumption of food.
- (e) "Organic material" means yard waste, food scraps, and compostable material
- (f) "Yard waste" means garden wastes, leaves, lawn cuttings, non-regulated weeds, shrub and tree waste, prunings, and twigs
- (3) Standards for compost piles in residential areas:
  - (a) Backyard compost sites may accept a combination of yard waste and food scraps that are not meat or dairy.
    - (i) Specifically prohibited items: uncooked meat, fats, oils, grease, bones, whole eggs, milk or other liquid dairy product, human or pet wastes, hazardous waste, herbicides, noxious weeds, and any other mixed municipal solid waste that may cause a public health risk or oreate nuisance conditions.

#### (b) Location:

- (i) Compost piles shall not be located within any storm sewer, drainage easement, or water retention basin. Compost piles shall not be located in any front or side yard, or closer than ten (10) feet to any property line.
- (ii) No compost site shall be located closer than twenty (20) feet to any residential dwelling, except the dwelling on the property on which the site is located.
- (iii) No compost site may be placed within twenty (20) feet of any body of water or area designated as a 100-year floodplain or state protected wetland.





# CITY'S ROLE IN PLANNING



Attend full group meetings and workshops as relevant

### Provide data and connections

- Demographics
- Budget
- Departments
- Community groups
- Schools
- Insights
- Review draft plan
- > Promote the initiative via city channels
- Guide the plan and team through meetings with municipal leadership



# IMPLEMENTATION



### $\succ$ People

• Local service providers

### ≻ Costs

- Grants for education/training, rescue
- Resident costs TBD with waste hauling negotiations

### > Timing

- o 3 years
- Launch as soon as funding available



### CITY'S ROLE MOVING FORWARD



> Promote the campaign via city channels

### $\succ$ Lead by example

- Engage staff
- Onsite food scrap collection
- Use compost on property

### Support backyard composting

- Develop standards and guide
- Facilitate bulk purchasing of supplies
- Update site plan reviews to include food scrap collection
- Require food waste diversion for events
  Develop standards and guide
- Implement a food scrap collection program for residents



# **NEXT STEPS**



### > Finalize cost estimates

- Multi-family residences collection
- Curbside collection costs

### > Apply for grant funding

- Awaiting grant decisions for education and training
- Seeking additional grant opportunities
- > Submit final blueprint

# 14 More Communities to Go!





### CHALLENGES

- **Connecting with and finding support** within the Commercial and Business Community as well as school districts
- Identifying policy that would be feasible in the City and likely to be approved by elected officials
- Identifying the most sustainable option for waste hauling/composting services



Southfield resident on smoothie bike at the Community Feast, April 2024

### CHALLENGES

- Fostering blue-sky thinking
- Obtaining specific information from partners
- Balancing community input with expert knowledge



Local experts at the Southfield Community Feast, April 2024



- > Messy and complex problems and systems
- Be ready to learn and pivot tactics as needed
- Get proper approvals so you have support
- Identify dedicated point people for the project
- Lean into existing municipal and community departments, resources, groups



# PREPARING YOUR YOUR COMMUNITY FOR SUSTAINABILITY

- > Get support from elected officials
- > Talk up the need for and benefits of action
  - Find common ground
  - Discuss urgency without creating fear
  - Know the facts

### ➤ Find allies

- Staff, departments
- Community groups
- Experts
- County MMP planning





### > Ask for community input

- Consider when and where input is needed
- Share case studies and best practices when asking for feedback

### > Be bold and committed to the goal





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