

# Performance Measures

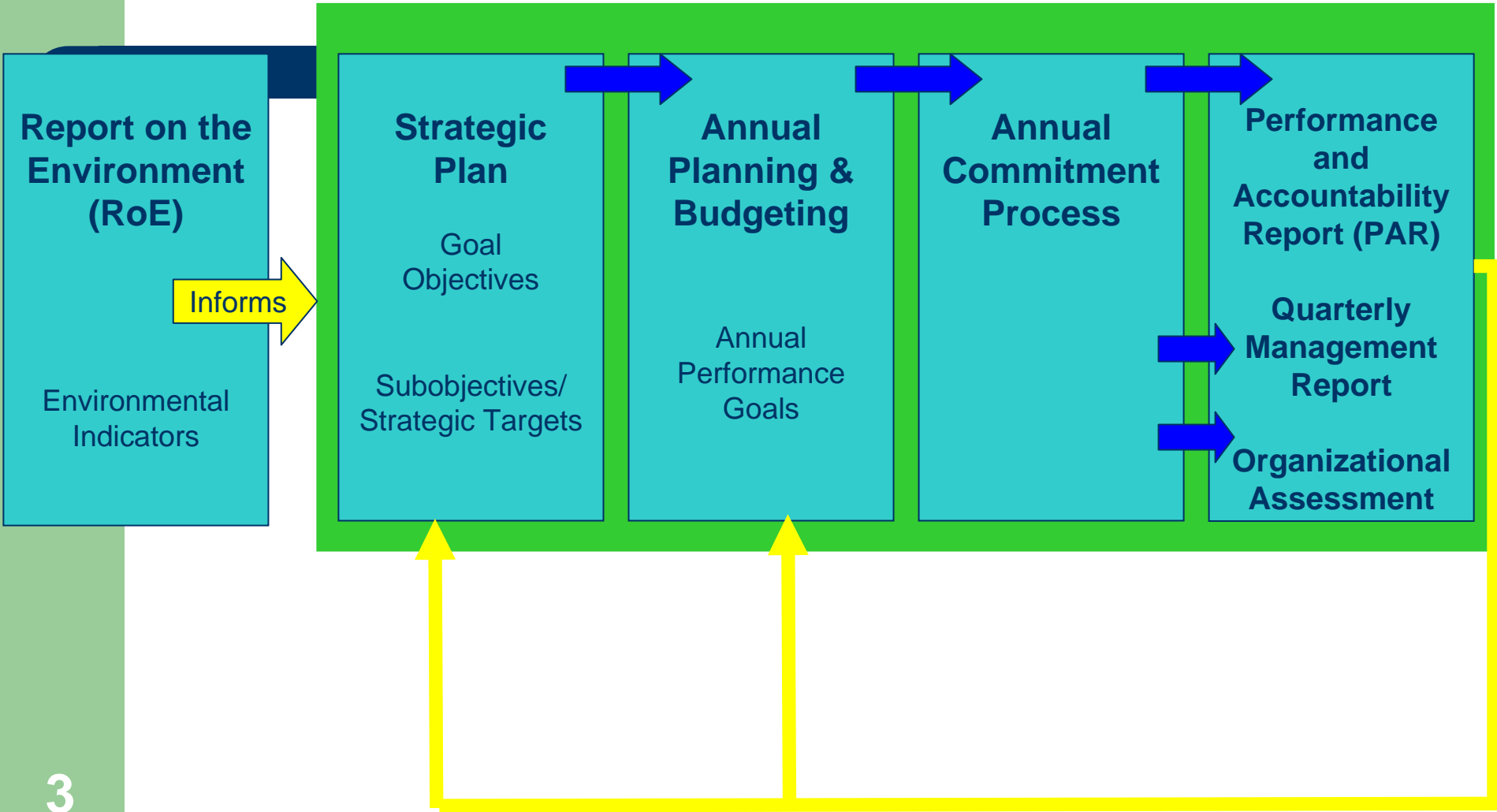
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# National Program Goal

Protect **public health** and the **environment** by ensuring pesticides and alternatives are **safe and available** for a healthy America.

# EPA's Performance Measures Framework



# PPDC Performance Measures Work Group: OPP's Request

- Provide **advice** through the PPDC on the measures OPP develops, and
- Provide **ideas** through the PPDC about other ways to measure performance

# MISSION AREA: PROTECT HUMAN HEALTH

Executive Lead – Debbie Edwards

|                                      |  |
|--------------------------------------|--|
| Reduce risk to <b>GENERAL PUBLIC</b> | Reduce risk to <b>INFANTS AND CHILDREN</b> |
| Reduce risk to <b>WORKERS</b>        | <b>PUBLIC HEALTH</b> benefits              |

# PROTECT HUMAN HEALTH

|                |                      |
|----------------|----------------------|
| GENERAL PUBLIC | INFANTS AND CHILDREN |
| WORKERS        | PUBLIC HEALTH        |

HH2: Measure conc. in drinking water over time as a result of mitigation

**HH5: Reduce the number of acute poisoning incidents from pesticides In and around the home**

**HH1: Reduce the level of currently registered pesticides in the general population (NHANES)**

Key: Long blocks = strategic measures  
Short blocks = "internal" measures  
Filled in blocks = in Strategic Plan  
Dotted line = developmental measure

HH = Human Health

# PROTECT HUMAN HEALTH

|                   |                            |
|-------------------|----------------------------|
| GENERAL<br>PUBLIC | INFANTS<br>AND<br>CHILDREN |
| WORKERS           | PUBLIC<br>HEALTH           |

**HH3: Reduce pesticide residues in the 20 foods most commonly eaten by children using the PDP residue data**

# PROTECT HUMAN HEALTH

|                   |                            |
|-------------------|----------------------------|
| GENERAL<br>PUBLIC | INFANTS<br>AND<br>CHILDREN |
| WORKERS           | PUBLIC<br>HEALTH           |

WS1: Survey of ag workers' awareness of WPS provisions

**WS4,6: Support a low rate of poisoning incidents. Cumulative reduction in moderate – severe incidents for 6 pesticides with highest incident rate.**

WS = Worker Safety

# PROTECT HUMAN HEALTH

|                   |                            |
|-------------------|----------------------------|
| GENERAL<br>PUBLIC | INFANTS<br>AND<br>CHILDREN |
| WORKERS           | PUBLIC<br>HEALTH           |

HH4: Ensure efficacious public health antimicrobial products in the marketplace

# MISSION AREA: PROTECT THE ENVIRONMENT

Executive Lead – Steve Bradbury

Protect the physical elements of the environment – air, land, water

Protect the organisms in the environment

# PROTECT THE ENVIRONMENT

Physical

Organisms

WQ2: Efficiency measure for evaluating and managing pesticides' water quality

WQ3: Tiered approach to managing 303(d) list concerning pesticides

**WQ1: Tiered approach to evaluating and managing pesticides to protect water quality – step 3: demo progress**

**EN4: Increase % of acreage by crop moving to reduced risk chemicals**

**EN1: Using EMAP and pesticide usage data, select and track priority aquatic environments**

WQ = Water Quality; EN = Environment Mission Area

# PROTECT THE ENVIRONMENT

Physical

Organisms

ES4: Cum. % of OPP actions for which OPP has implemented appropriate ES determinations

EN2: Decrease % mortality of honey bee colonies due to pesticides

ES3: Cum. % of Sec. 18 requests with a credible effort to consider ESA implications

ES1: % reduction each year in av. cost and av. time to produce ES Bulletin

# PROTECT THE ENVIRONMENT

Physical

Organisms

**NEW:** For key pesticides, reduce the number of urban and agricultural watersheds exceeding aquatic life benchmarks using USGS's National Ambient Water Quality Assessment (NAWQA) data.

**EN3: "Meta-measure"** – using performance measures developed by Task Groups and investigation of existing measures and data, develop an index to gauge environmental quality as it relates to pesticides

# MISSION AREA: REALIZING “OTHER BENEFITS”

Executive Lead – Lois Rossi

Benefits from having pesticide “tools” available to minimize or prevent pest damage

Reductions in costs that resulted from management of pesticide risks

OB = Other Benefits Mission Area;

SA = Strategic Ag + Pesticide Environmental Stewardship Program

# OTHER BENEFITS

Benefits from use of pesticide tools

Reduced Cost

OB6: Resistance management

SA1: Reports in SAI db show increase in use of whole farm practices on transition gradient

SA2: % of crop transitioned grant funds/# of acres transitioned

OB8: Incidents and costs associated with vector borne diseases

**OB1: Avoided crop loss due to pests measured thru the Section 18/Section 3 program**

**NEW: 12 lower risk pesticide alternatives with coordinated approval among international partners**

# OTHER BENEFITS

Benefits from use of  
pesticide tools

Reduced Cost

**OB7: Reduce expenditures resulting from insect structural damage**

**OB2: Decreased costs associated with pesticide exposure (benefits from “me-too” registrations)**

# Your Opportunity to Comment on the EPA Strategic Plan:

- OPP has proposed a focus on 3 mission areas to better suit our *outcome* focus
- Look for OPP under **Goal 4**
- Web address:

[www.epa.gov/ocfo/plan/plan.htm](http://www.epa.gov/ocfo/plan/plan.htm)

# Elements of the Work Group Report:

## General Observations

- Appreciate the open discussion
- Immense program that has a global, national and regional basis
- Important to recognize risks and benefits
- Don't throw away the old output measures – use existing databases, recognizing limitations

# Elements of the Work Group Report:

## General Observations

- Data have significant cost – any resources put to measurement should have significant ROI
- Since other agencies “own” the data OPP uses for some measures, important to coordinate with other agencies on data gathering
- Mine available data – trends, extrapolations, etc.
- Needs a strategic commitment of resources

# Elements of the Work Group Report: Human Health

- Use NHANES data with care – both underestimates and overestimates are possible
- Couch measures in terms of *minimizing exposures*
- Use Poison Control Center with care – need to delve deeper than number of calls

# Elements of the Work Group Report: Environment

- Think beyond endangered species – for example, what about the USGS breeding bird data?
- Encourage OPP to develop measures for protecting terrestrial ecosystems

# Elements of the Work Group Report:

## Other Benefits

- Needs a name change! – suggestion: Value of pesticide availability
- Least developed of the mission areas – needs more measures developed
- Encourage OPP to solicit ideas for additional measures in this mission area
- Encourage development of a measure highlighting IPM in schools

## Next steps...

- Submit Work Group report to full PPDC
- Stay in touch to provide advice/support to OPP on key items as they come up
- Review any new measures, final measures
- Track implementation

# Questions for the PPDC...

- How does the PPDC want to address these next steps?
- Should the Work Group continue?