

Putting Data to Work

The Open & Transparent Water Data Act

```
mirror_mod = modifier_ob.modifiers.new("mirror_mirror", "MIRROR")
# set mirror object to mirror_ob
mirror_mod.mirror_object = mirror_ob

if _operation == "MIRROR_X":
    mirror_mod.use_x = True
    mirror_mod.use_y = False
    mirror_mod.use_z = False
elif _operation == "MIRROR_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
elif _operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

# select the object to mirror
mirror_ob.select(1)
modifier_ob.select(1)
hpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob))
# mirror_ob.select(1)
# hpy.context.selected_object.select(1)
# hpy.data.objects[one_name].select(1)
except:
    print("please select exactly two objects, the last one is the modifier only.")

OPERATOR CLASSES
Mirror Tool

class MirrorX(hpy.types.Operator):
    """This adds an X mirror to the selected object"""
    bl_idname = "object.mirror_mirror_x"
    bl_label = "Mirror X"

    @classmethod
    def poll(cls, context):
        return context.active_object is not None
```

- California's water resource-related datasets are challenging to identify, access, and use
- More centralized data will allow for better water planning, management, and decision-making
- AB 1755 was signed into law on September 23, 2016

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- DWR must create, operate, and maintain a statewide integrated water data platform
 - Integrate existing water and ecological data from multiple databases
 - Provide data on completed water transfers and exchanges
- DWR must work in consultation with:
 - California Water Quality Monitoring Council
 - State Water Resources Control Board
 - California Department of Fish and Wildlife

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- DWR is required to develop protocols for:
 - Data sharing
 - Documentation
 - Quality control
 - Public access
 - Promotion of open-source platforms
 - Decision support tools related to water data
- DWR must submit to the Legislature a report on these protocols

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- The platform will:
 - Integrate existing water/ecological data from multiple databases managed by federal, state, and local agencies and academia using consistent and standardized formats
 - Provide data on completed water transfers and exchanges including volume, price, delivery method, identity of buyers/sellers, and water right
 - Receive both spatial and time-series data from various sources

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- The platform will integrate available datasets, namely:
 - DWR State Water Project reservoir operations, groundwater levels, urban water use, and land use
 - SWRCB data on water rights, water diversion, and water quality (CEDEN)
 - CDFW information on fish abundance and distribution
 - USGS streamflow conditions (NWIS)
 - USBR Central Valley Project operations information
 - USFWS, USFS, and NOAA Fisheries fish abundance information

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- AB 1755 is an opportunity to integrate and increase access to water data collected by state agencies, which will:
 - Foster collaboration among state agencies
 - Create opportunities to share and integrate datasets
 - Minimize duplicate data gathering and reconciliation of diverse datasets
 - Improve state agency operations through data-driven decision-making
 - Improve transparency and accountability

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Key Dates

- By January 1, 2018: DWR will make public the protocols developed and publish a strategic plan for data management to guide implementation of the Act
- By April 1, 2018: DWR shall release any request for proposal(s) necessary for platform development
- By September 1, 2019: DWR shall make available on the platform existing water and ecological data held by state agencies (and quarterly add data as it becomes available)

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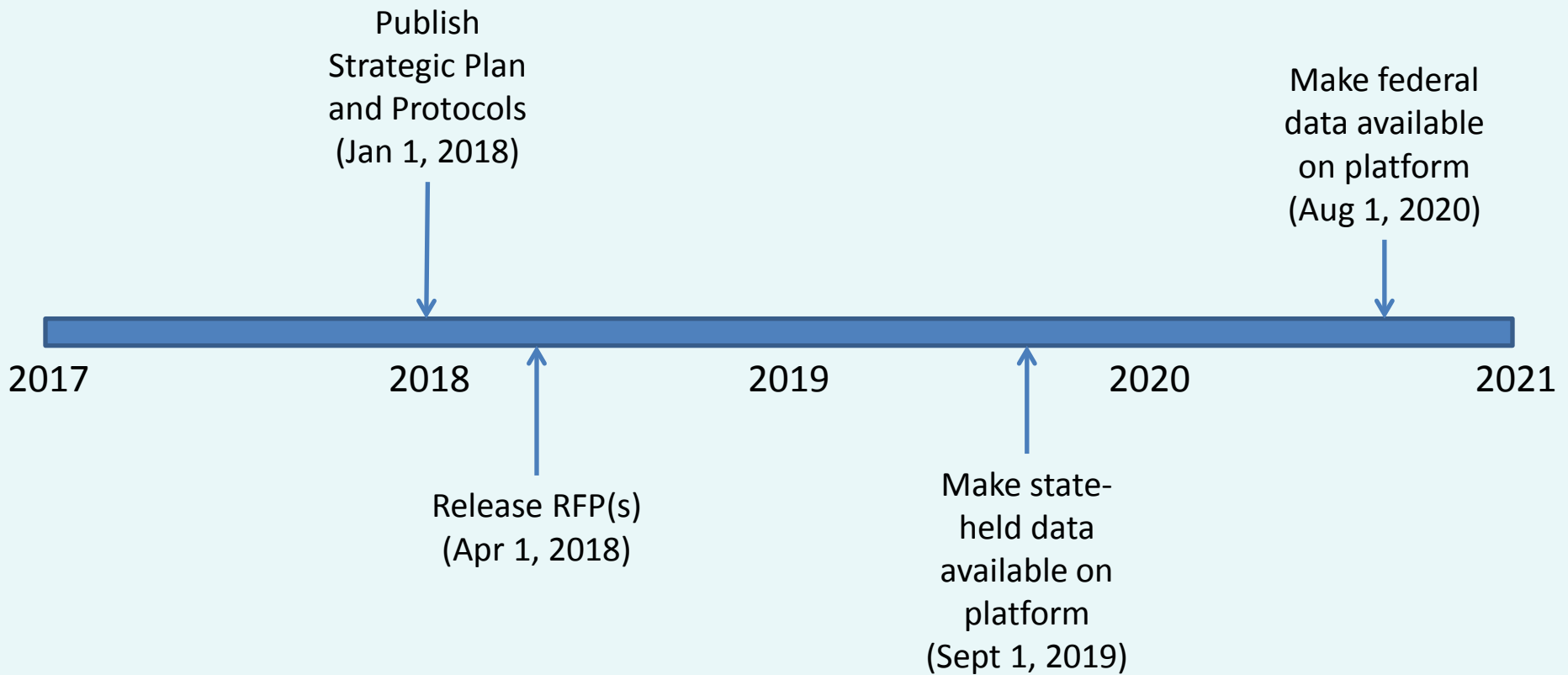
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Key Dates (cont'd)

- By August 1, 2020: DWR shall make available on the platform data related to California water supply and management held by:
 - U.S. Bureau of Reclamation
 - U.S. Fish and Wildlife Service
 - National Oceanic and Atmospheric Administration
 - U.S. Geological Survey
 - U.S. Forest Service

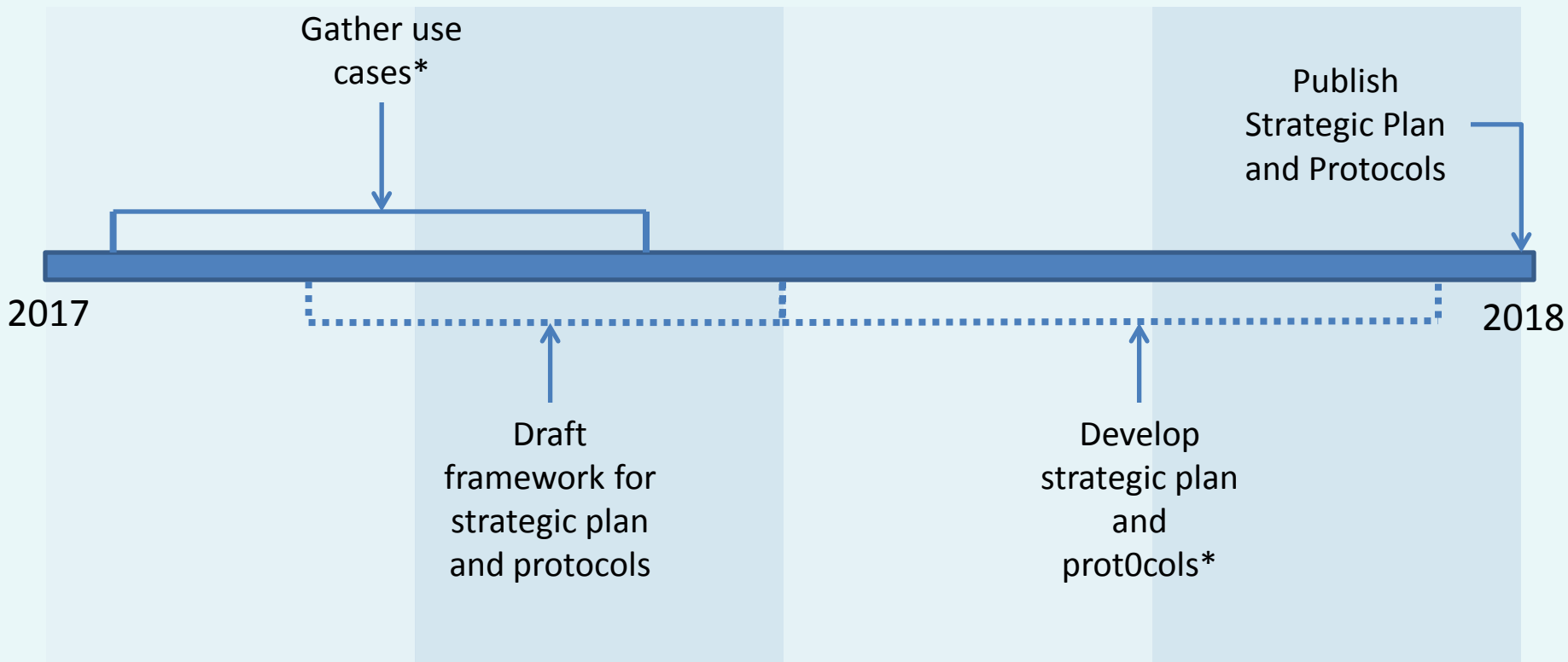
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- Develop draft products
 - use cases → functional requirements
 - use cases → data-sharing protocols
 - strategic plan framework/strategic plan
 - protocols framework/protocols
- Solicit feedback on draft products
 - partner agencies
 - stakeholders
 - advisory panel
- Consider and incorporate feedback
- Release final products

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Data Workshops – Use Cases

- February 9, co-hosted by DWR, CCST, UC Water
- Data-driven decisions? Consider decision-driven data!
 - WHO needs
 - WHAT data
 - In WHAT form
 - For WHAT decision(s)
- May 8, follow-on workshop

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Questions?

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