

Consideration of BMP Lifespans

Water Quality GIT 10/20/2014

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When?

September
2014

Framework Adoption by the Partnership



October 2014-
July 1, 2015

**Jurisdictions/Federal Agencies Development
of Their BMP Verification Programs**



July -
September
2015

**External Panel Review of the Jurisdictions/
Federal Agencies' BMP Verification Programs**



October -
December
2015

**EPA Review and Approval of the
Jurisdictions' BMP Verification Programs**



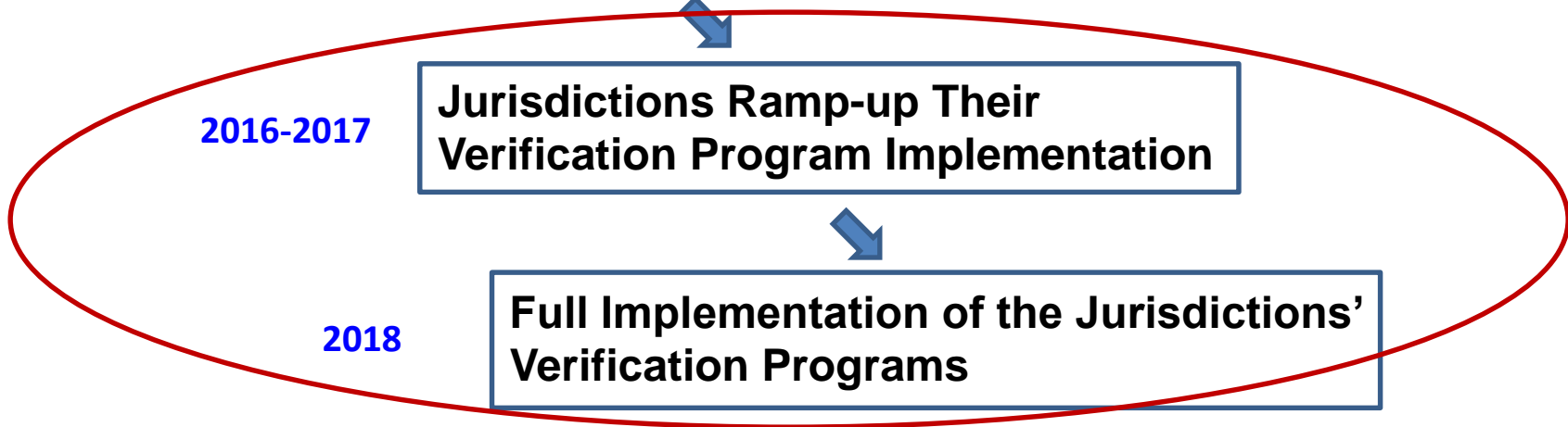
2016-2017

**Jurisdictions Ramp-up Their
Verification Program Implementation**

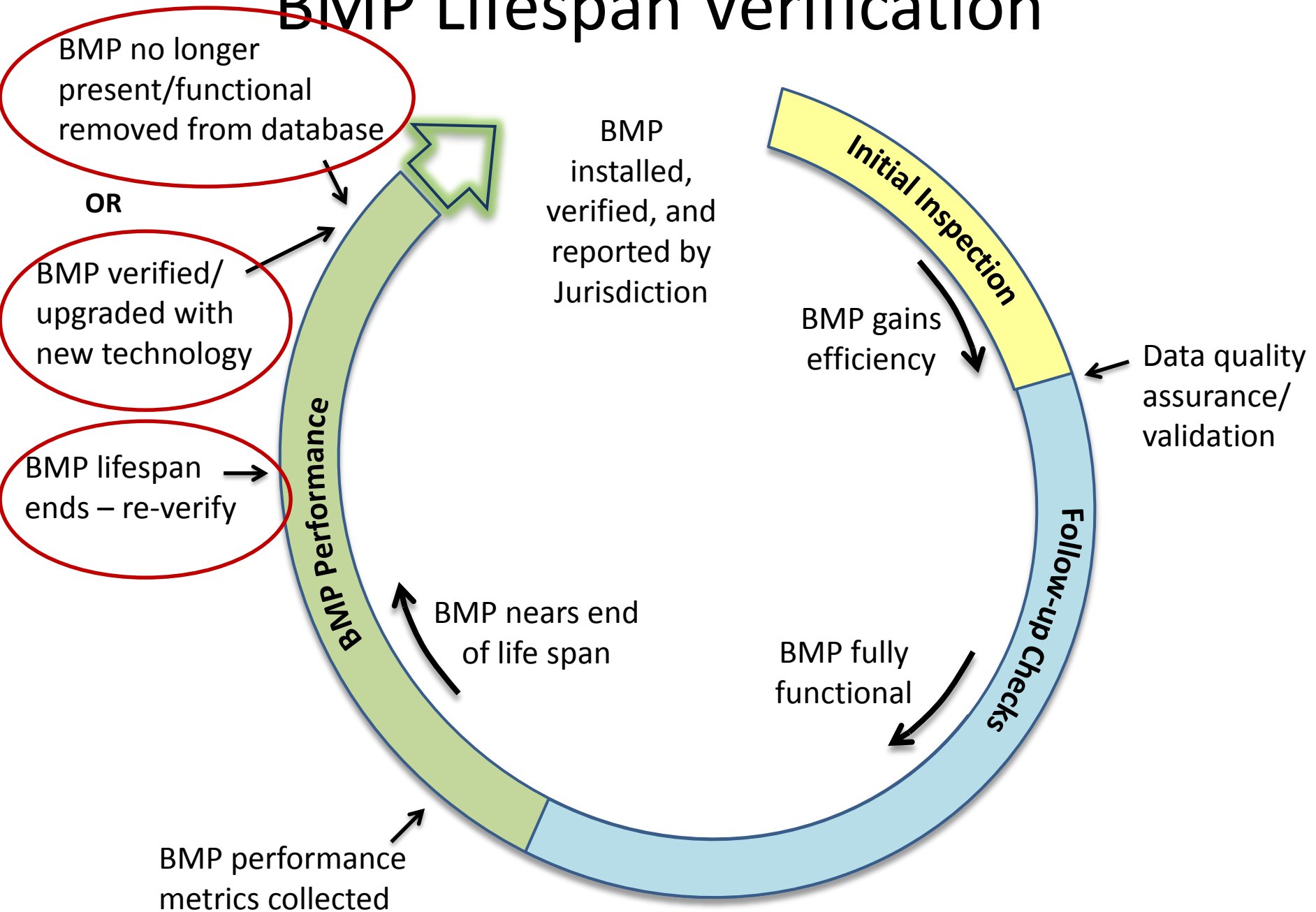


2018

**Full Implementation of the Jurisdictions'
Verification Programs**



BMP Lifespan Verification



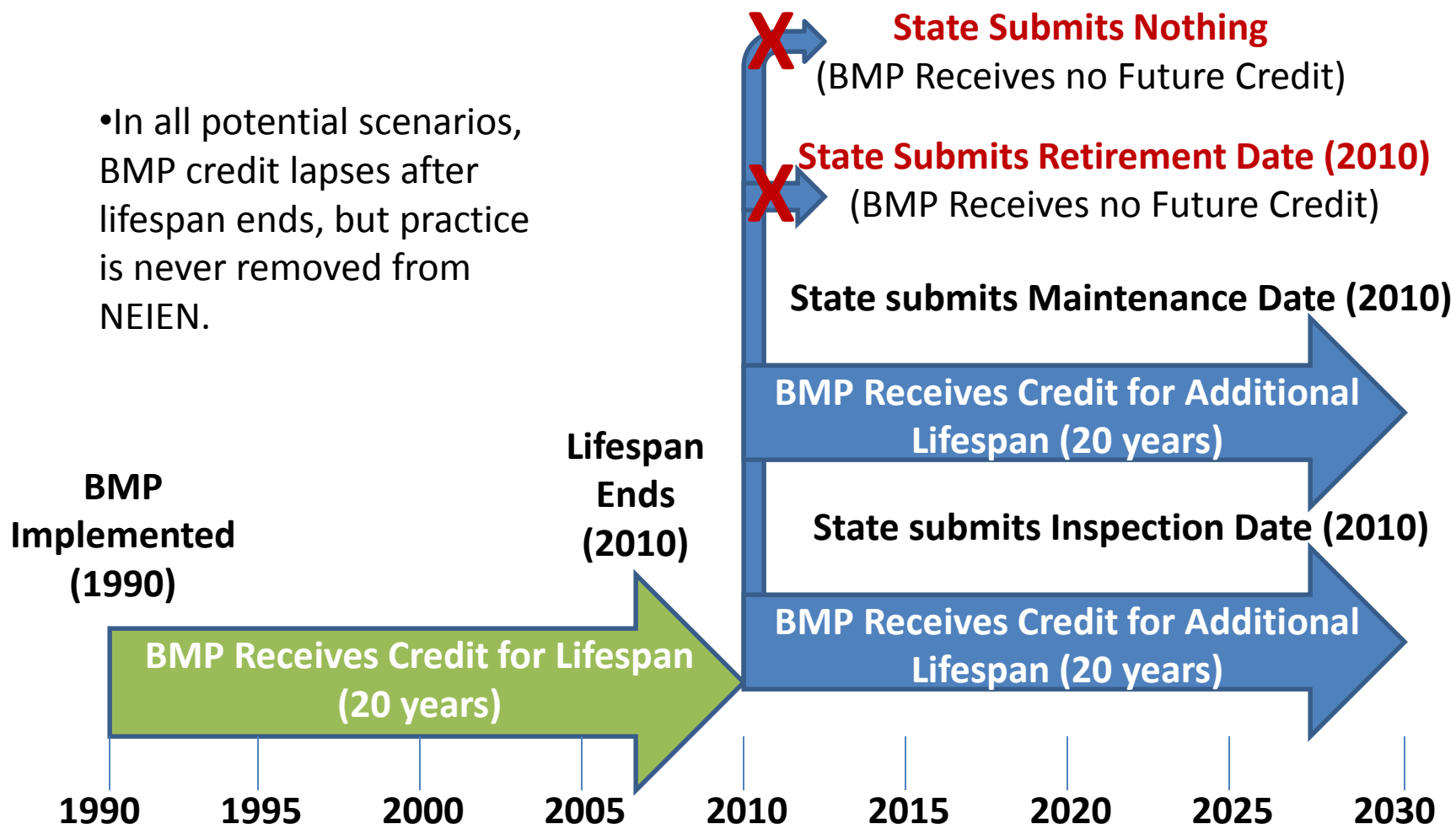
BMP Lifespans End

BMP Name	Lifespan Years
Urban Forest Buffer	75
Wet Ponds	50
Dry Ponds	50
Infiltration	50
Bio-Retention	25
Permeable Pavement	20

- Default lifespans (and costs) were prepared for EPA using existing data, and Bay jurisdictions were provided the opportunity to review and amend the data.
- These lifespans are meant to be functional, not contract lifespans.
- Some lifespans are likely too long (e.g., forest buffers currently have a 75-year lifespan).
- A thorough Partnership review of lifespans is needed and called for in the Basinwide BMP Verification Framework.

Potential Use of BMP Lifespans in NEIEN

- In all potential scenarios, BMP credit lapses after lifespan ends, but practice is never removed from NEIEN.



WTWG Recommended NEIEN Approach (May, 2014)

Jurisdiction	County	BMP Name	Amount	Status
VA	Loudoun	Bioretention	100 acres	Implemented (1990)
VA	Prince William	Bioretention	60 acres	Implemented (1990)

Jurisdiction	County	BMP Name	Amount	Status	Status2
VA	Loudoun	Bioretention	10 acres	Implemented (1990)	Maintained (2005)
VA	Loudoun	Bioretention	90 acres	Implemented (1990)	
VA	Prince William	Bioretention	5 acres	Implemented (1990)	Inspected (2005)
VA	Prince William	Bioretention	5 acres	Implemented (1990)	Retired (2005)
VA	Prince William	Bioretention	50 acres	Implemented (1990)	

- WTWG recommended splitting older records into multiple records as verification occurs.
- The example above illustrates how 2 records might be split into multiple records to account for maintenance, inspection and retired dates.
- This approach could be problematic for historic data where very little information is known, or for agricultural data where it is less likely that on-the-ground inspections of all practices will take place.

Recommended Follow-up Actions

- Partnership Review of Lifespans in CAST Tools
 - Charge source sector workgroups to review of relevant lifespans.
- Inspection Dates
 - Charge source sector workgroups to determine if partial lifespan renewal is warranted upon receipt of inspection date. This would likely vary across BMPs.
- Subsample Verification Approach
 - Charge WTWG to consider how subsampling of BMPs for verification might be incorporated into NEIEN.
- Lifespan and Calibration
 - Charge WTWG to work with Modeling Workgroup to determine how lifespans should be modeled during calibration.