



# SUMMARY Funding Already Approved

	2015-2016 PPB	2017 PPB	2018 PPB
PROJECT 1 Data Analytics Platform	\$200,000		
PROJECT 2 Sensor Technology Development	\$50,000		\$150,000
PROJECT 3 RR Turbine - Generator Model		\$250,000	\$100,000
Total Approved	\$250,000	\$250,000	\$250,000
Total Spent as of Feb 2018	\$202,700	\$190,650	<b>\$0</b>

#### **Conclusions Thus Far**

The concept of aggregating data is valuable

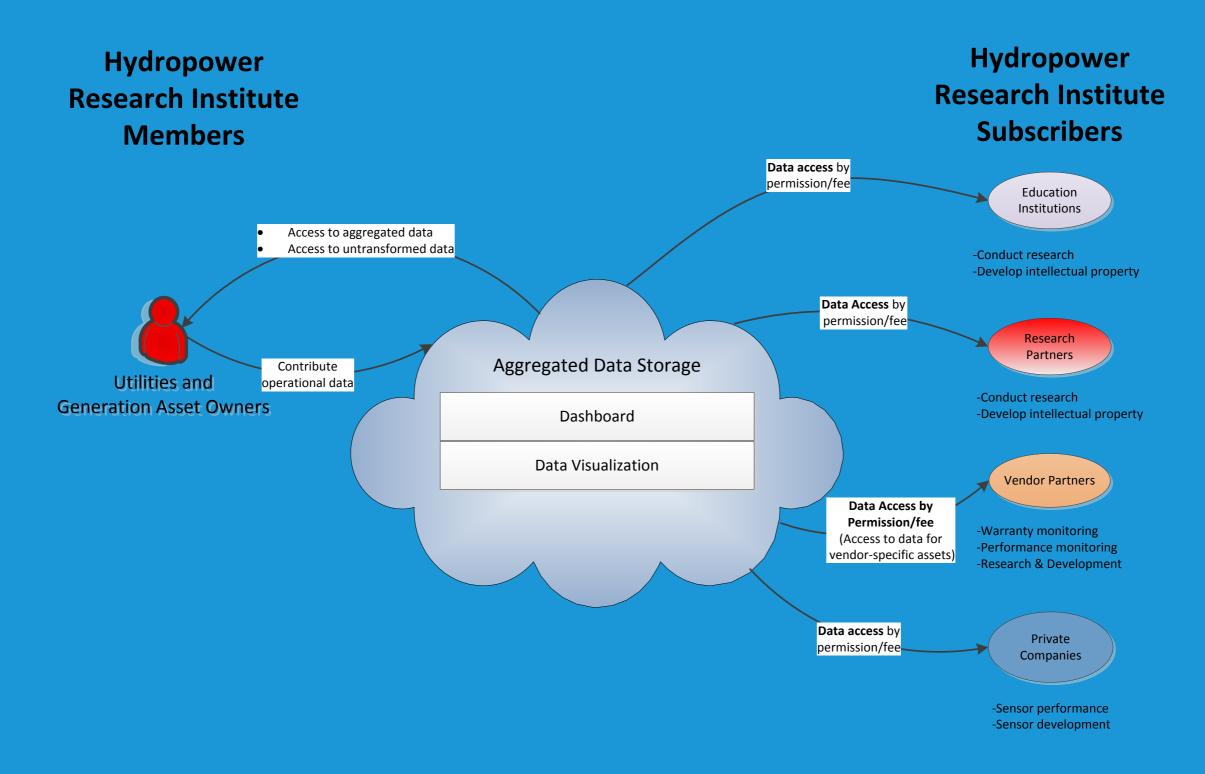
Others are willing to contribute funds

There is an interest in this concept from:

- » Hydropower owners
- » Manufacturers
- » National Labs
- » Colleges and Universities

There is an interest regionally in research collaboration between Agriculture, Hydropower, Healthcare, and Technology industries

#### Hydropower Research Institute



## Potential Application

Reduce forced outages

Benchmarking

Improve O&M practices

Improve predictive capabilities

Perform research

Develop new sensors and monitoring equipment

Improve quality and contract terms

### Recommended next steps

- 1. Incorporate Institute as a nonprofit corporation in Chelan County
- 2. Develop articles of incorporation, by-laws, operation plan, and select contract operator between now and August
- 3. Reallocate \$200,000 from sensor technology development to the Institute formation. Allocate an additional \$300,000 from unallocated PPB funds for the incorporation effort and begin contract operations.
- 4. Solicit additional hydropower owner membership and subscribers
- Begin aggregating operational data by the end of the year with US Army Corps of Engineers and Southern Company

