



IAQ Expectations Impact M & O Perspective

Ken Wertz

MFAA Executive Director

massfacilities.com

Prioritization of Engineering Controls to Reduce Long-Range Airborne Transmission

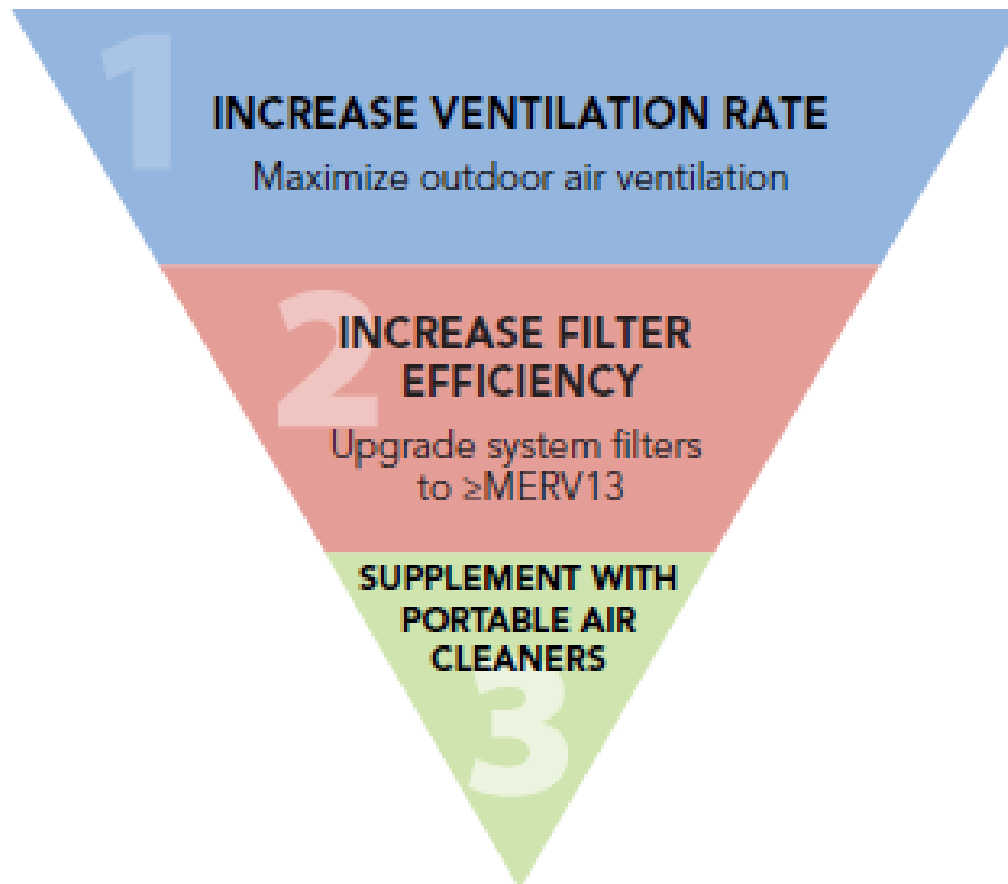


Figure 2. Source: Jones et al., 2020. *Schools for Health: Risk Reduction Strategies for Reopening Schools*. Harvard Healthy Buildings Program.

SCHOOLS

FOR HEALTH

How School Buildings Influence
Student Health, Thinking and
Performance



HARVARD T.H. CHAN
SCHOOL OF PUBLIC HEALTH



5-step guide to checking ventilation rates in classrooms

Joseph Allen, Jack Spengler, Emily Jones, Jose Cedeno-Laurent
Harvard Healthy Buildings program | www.ForHealth.org

August, 2020

BUILDING  FOR HEALTH



**HARVARD
T.H. CHAN**

SCHOOL OF PUBLIC HEALTH



Increased Filtration



VS.



- Unit cost 2.5 to 3 times more
- Increased utility costs

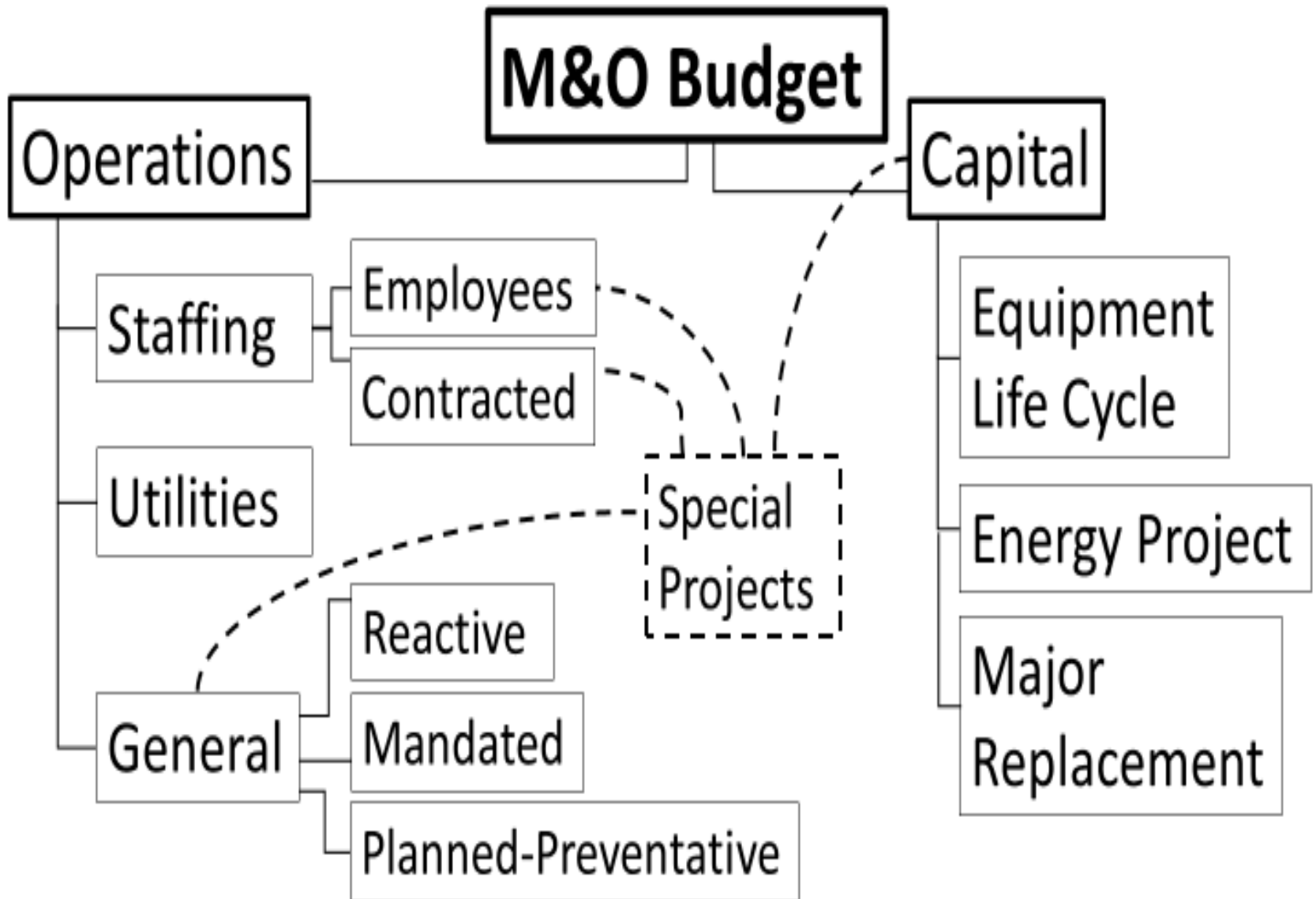
Univent Heaters



Decisions...Decisions...







Deferred Maintenance



USGBC State of Schools Report Published in 2013!!!

Condition of U.S. public schools

Many U.S. public schools are outdated and suffer from deferred maintenance. Fixes will be costly.



total cost

\$542 billion

There are **100,000** public elementary and secondary schools in the U.S.

Replacement value for all U.S. K-12 public school facilities is about

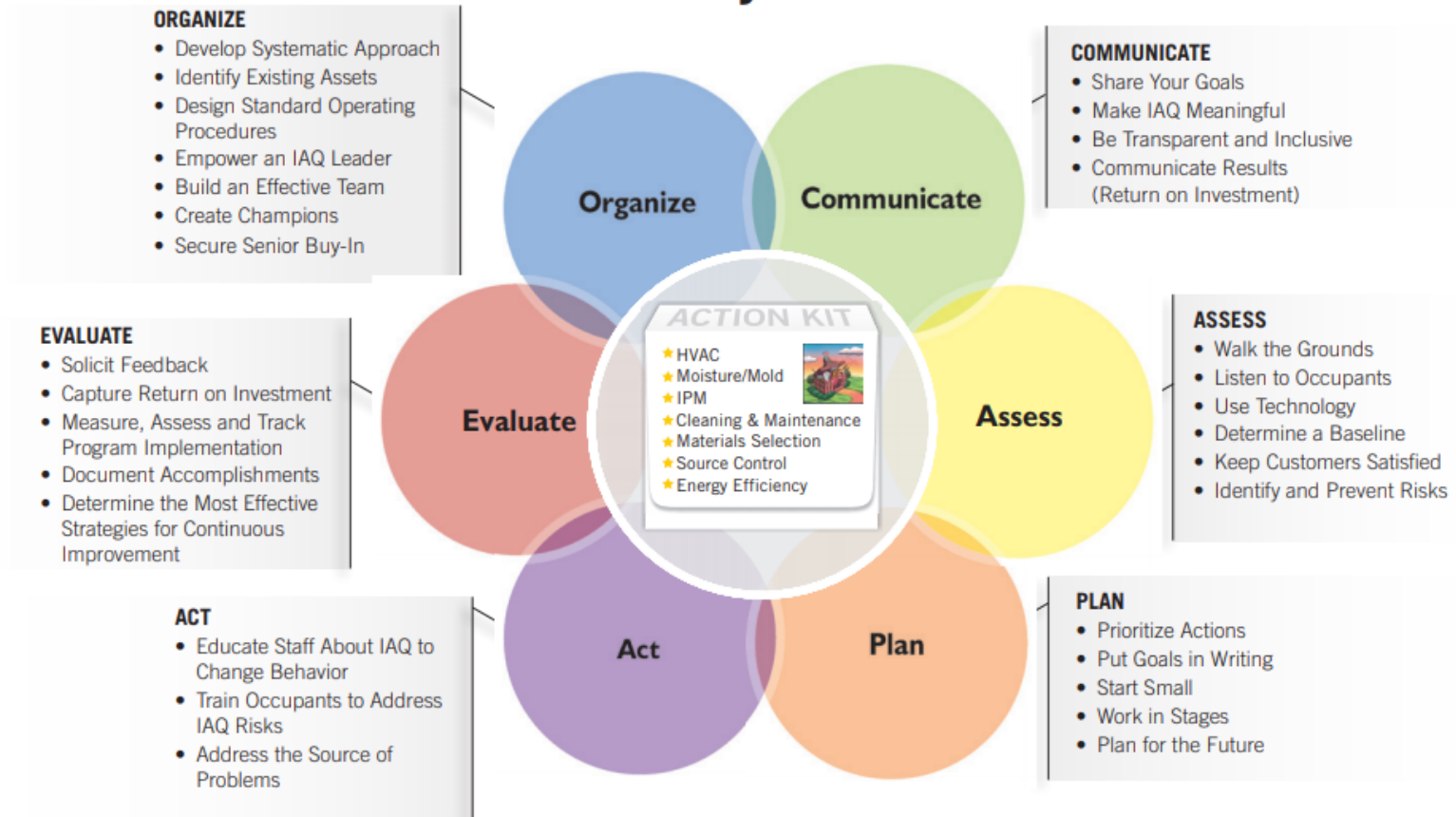
\$1 trillion

SOURCE: U.S. Green Building Council,
National Center for Education Statistics

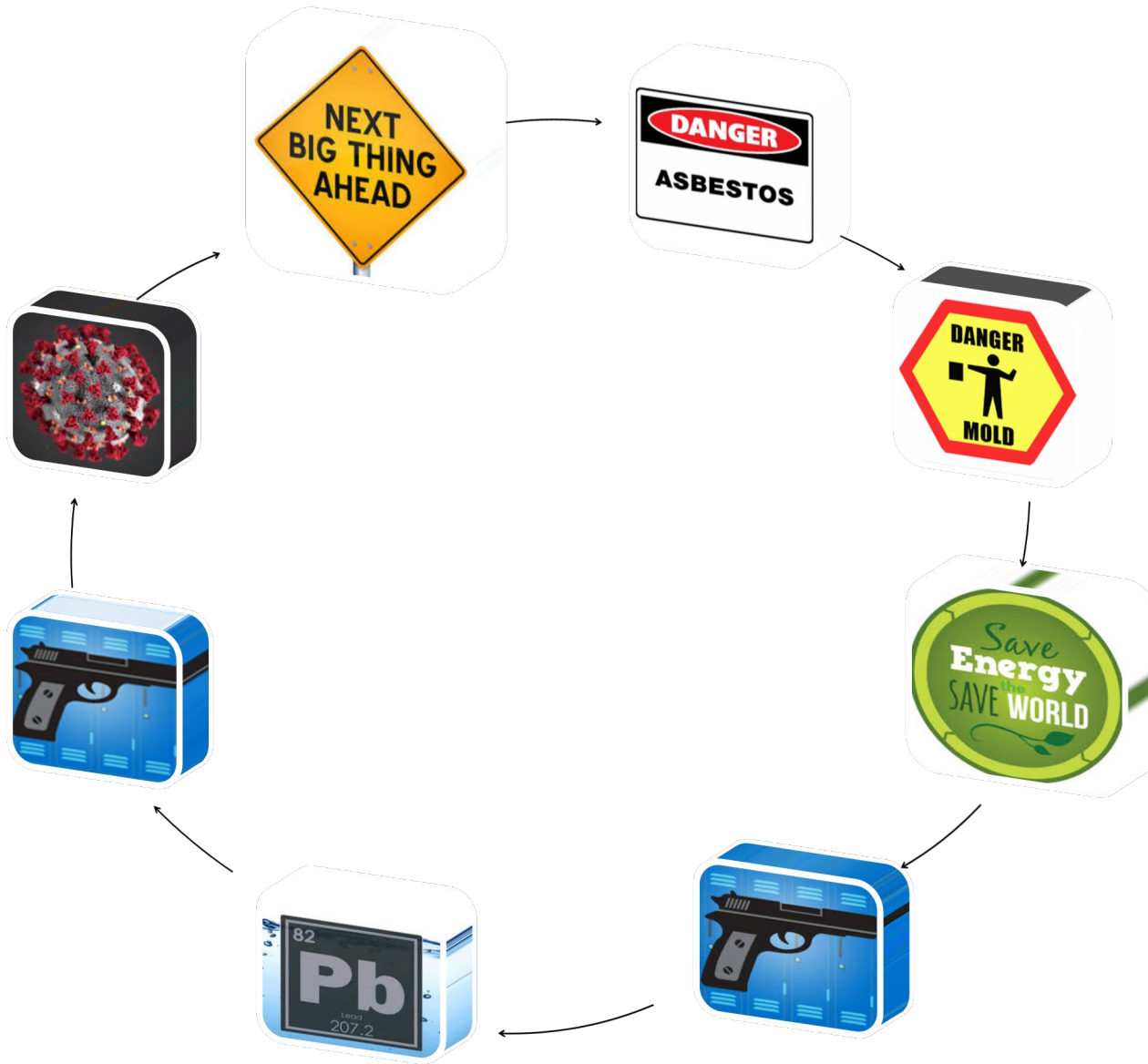
DESERET NEWS GRAPHIC



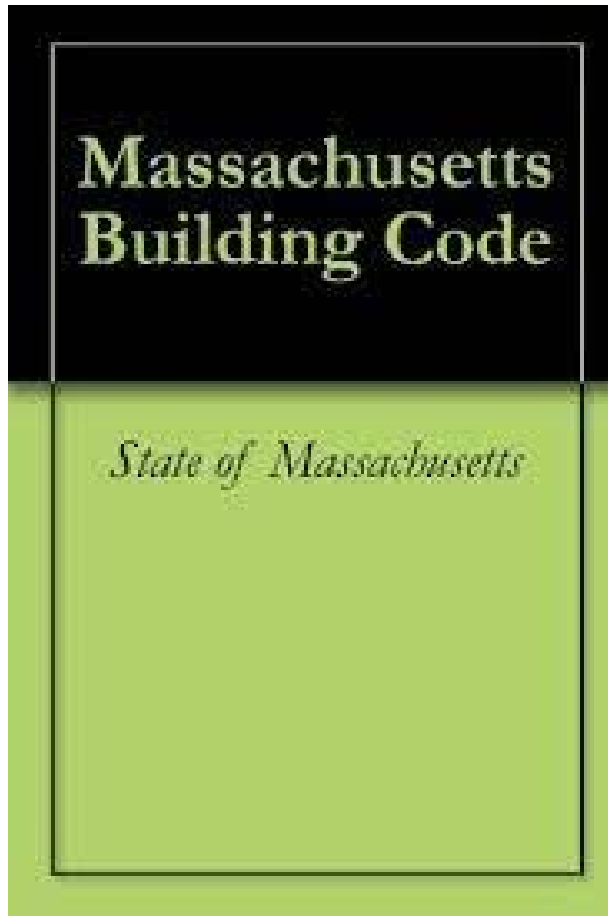
The Framework for Effective School IAQ Management: Six Key Drivers



How Soon We Forget...



Next Gen Building Designs





**KEEP CALM
AND
OVERRIDE**

<https://massfacilities.com/covid-resources/>



Ken Wertz

MFAA Executive Director

exec@massfacilities.com



www.massfacilities.com