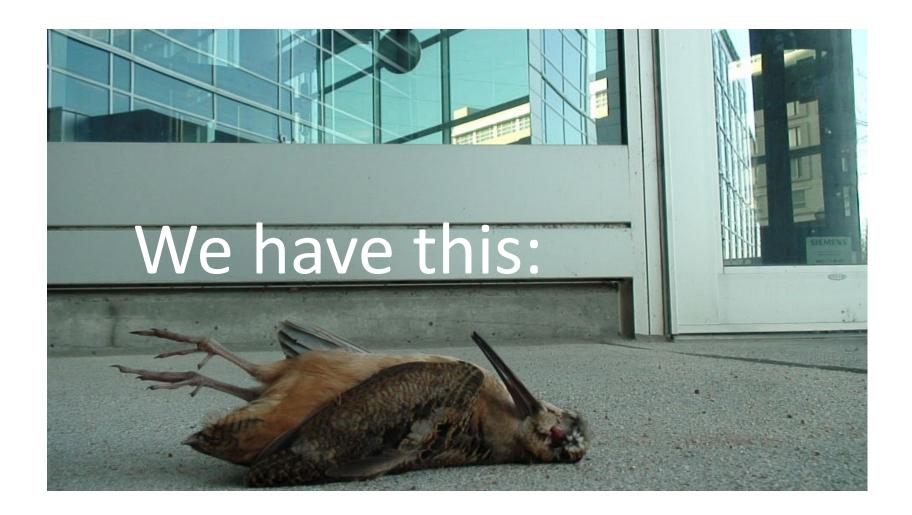


1 *Billion* Birds Are Lost *Annually* In Collisions with Building Glass

**AERIAL HABITAT NEEDS CONSERVATION TOO** 







#### 29% Fewer Birds in US than in 1970

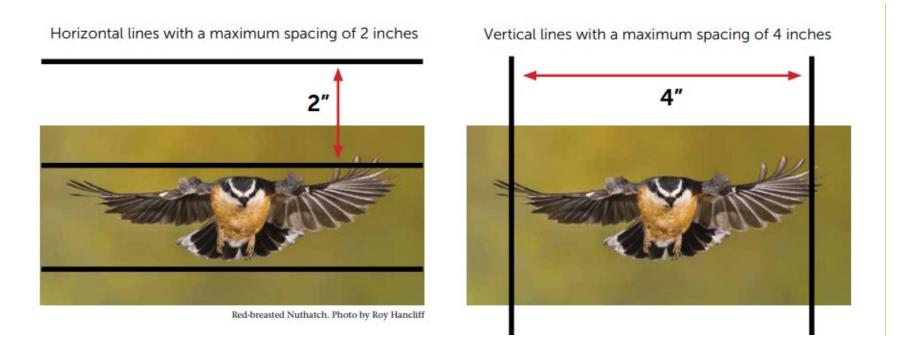
- Migratory long range neotropical migrants
- Healthy good body weight score
- Breeding condition
- Lost prior to completing migration no chance to reproduce
- Face the threat twice per year spring and fall
- Fall migration includes fledgling deaths
- Numbers are increasing due to increases in use of glass and lighting











Solution = 2x4 Rule

### **Many Architectural Solutions**





# Number of glass buildings is growing exponentially

- Glass buildings lose energy and contribute to clima change
- LEED pilot credit 55 is cost neutral in cost saves money over time through less a
- Many buildings are retrofitting to become including National Aquarium in Baltimo DNR Tawes, and Javits Center in NYC

#### 95% Less Bird Deaths at Javits



25% Less Energy Used

#### Federal Bill

Bird-Safe Buildings Act of 2021

HR 1986

U.S. Rep. Mike Quigley (D-IL)

Passed U.S. House twice in 2020 attached to larger bills



State and Local Bills

Minnesota 2013 law

Illinois 2021 law

21 local jurisdictions

Maryland may be next state law





# Local Maryland Legislators considering

Bird Safe Building Bills



Anne Arundel County – Lisa Rodvien

Wicomico County – Josh Hastings





Frederick County – Kai Hagan

Montgomery
County –
Tom Hucker



Maryland
Sustainable
Buildings Acts of
2019—2022

Passed State House 4 times and State Senate 1 time in last 4 years





# **Bill History**

First year it passed House (De' Hill) and Senate (Delegate/Ser Lam and Senator Guy Guzzon but was not reconciled in time

Ser ence on ring)

 Passed House in 2022 (HB 43) with bipartisan vote of 101 to 33

Was not taken up in Senate session



# Maryland Sustainable Buildings

 HB 43epartment of General Amery Conserving Standards (Maryland Buildings Act of 2022)

Mark Southerland PhD Safe Skies Maryland mark.t.southerland@gmail.com



 Provides for all new and substard buildings with 51% state funding standards per LEED Pilot Credit



## **Bill Provisions**

- LEED Pilot Credit 55 includes calculating the Threat Factor (likelihood of bird collision) for every material, glass and non-glass, on a building envelope
- Glass may be used anywhere desired if it includes a pattern of dots or line (or UV or screening) that birds can see (but is rarely noticed by people)
- Facade on the lower four floors (where birds most often collide) must be 90% bird safe, while higher up on the same building must be 60% bird safe
- Lighting overnight is reduced, from midnight to dawn, during spring and fall migration
- Monitoring requirement of LEED 55 is not included in HB 43
- Buildings shall meet LEED 55 "to the extent practicable and within budgetary constraints"

