Rinse Right
95% did not properly wash their hands in a Michigan State study.
didn’t in our informal MIT survey
Handwashing prevents the spread of disease.
RINSE RIGHT!

An automatic, timed faucet that dispenses soap and water to help people wash their hands properly.
We talked to Possible Customers & Users

Do you Rinse Right?
Survey to determine how much time people spend washing their hands, and why they spend that much time?

MIT Department of Facilities

USER Test #2
- confused what was gonna happen
- missed soap
- too much time delay
- great that you did not have to spread germs or expend energy
- good
Timed sink faucet that automatically dispenses soap and water to aid hand washing:

**RINSE RIGHT**

**intended customers:** business owners, restaurants, schools, daycares  
**market:** commercial bathroom plumbing fixtures

<table>
<thead>
<tr>
<th>CUSTOMER NEED</th>
<th>PRODUCT ATTRIBUTE</th>
<th>ENGINEERING SPECIFICATION</th>
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<tbody>
<tr>
<td>Easy and intuitive to use</td>
<td>User interaction</td>
<td>Clear indications how to use during the hand washing process</td>
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<tr>
<td>Can be installed in most existing sinks</td>
<td>Versatility</td>
<td>Fits single-hole, 4” minispread, 4” centerset, and 8” widespread faucet mounts; integrates with existing plumbing</td>
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<tr>
<td>Can be used as a standard faucet when desired</td>
<td>Modes</td>
<td>Faucet can be switched between ‘regular’ mode and ‘hand washing’ mode</td>
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<tr>
<td>Costs less to operate than existing faucets</td>
<td>Timed water/soap dispensing &amp; automatic function</td>
<td>Less volume of water and soap dispensed per hand wash than existing faucets</td>
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<tr>
<td>Can withstand normal wear and tear</td>
<td>Material &amp; Coating</td>
<td>Resistant to soft-water corrosion and hard-water calcification, scratches, and fingerprints</td>
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</tbody>
</table>
We identified “Key Risks” to address

Will the user understand how to use it?

Is the 15 second “lather time” too long?
Risk: Will the user understand how to use it?

Testers were unsure of “what was going on”

We added labels and a “progress bar”

Tester understanding improved

**Takeaway:** *More guidance is required than for a standard sink*
Risk: Is the 15 seconds “lather time” too long?

Testers:

Too Long

Okay

Takeaway: We need to improve the user’s lathering experience
Future Steps

Model with improved aesthetics that could be installed for longer-term testing

Additional Features

- Hands-free activation
- Implement “Water-only” mode
- 15 second “entertainment”
Price

Target price: $250-$500

Existing Automatic Faucets cost $200-$400

$50-$100 Markup
Wash well and Rinse Right!
Sources

People don’t wash their hands correctly: https://www.jstor.org/stable/26329601?seq=1#page_scan_tab_contents