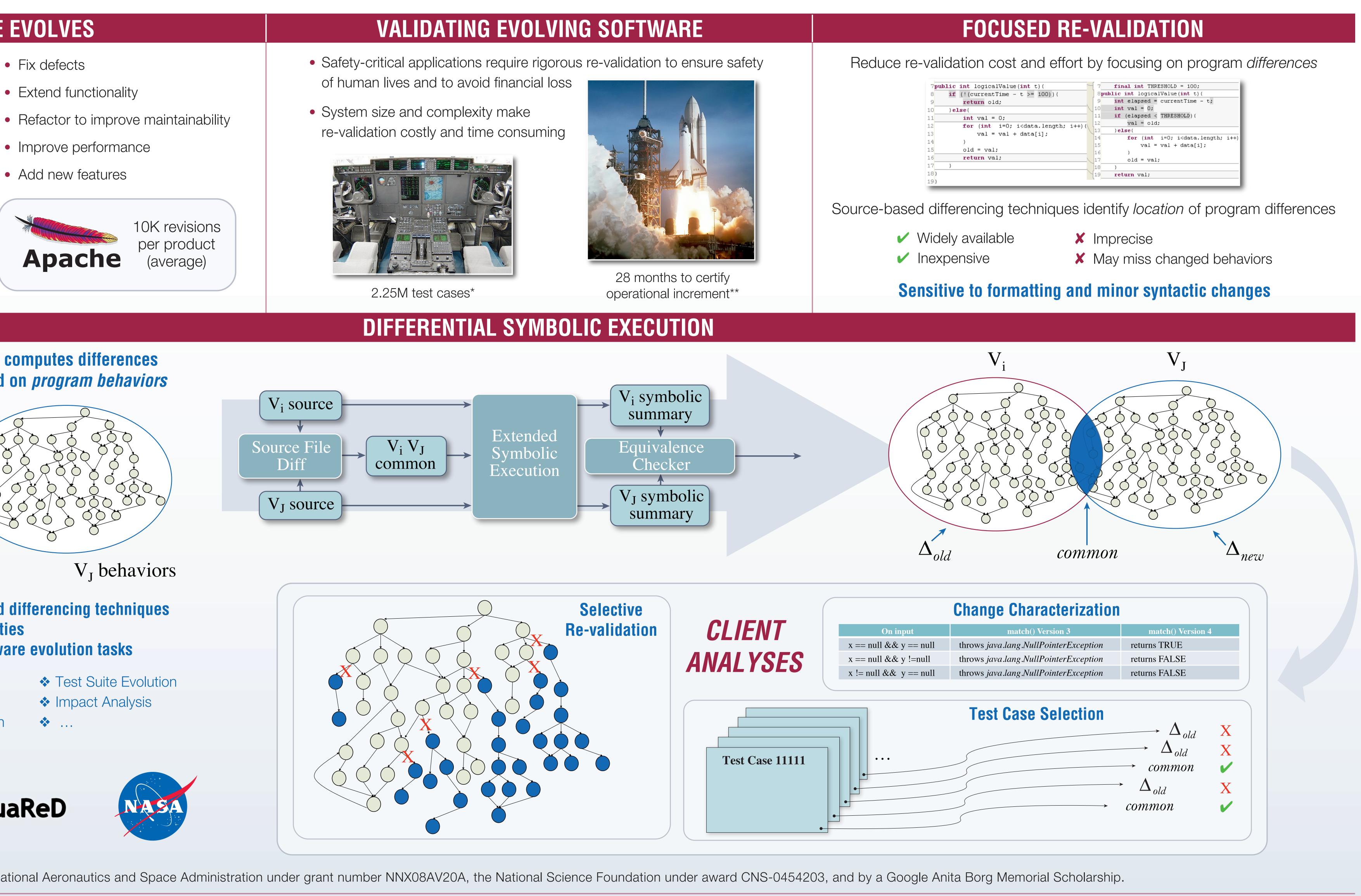
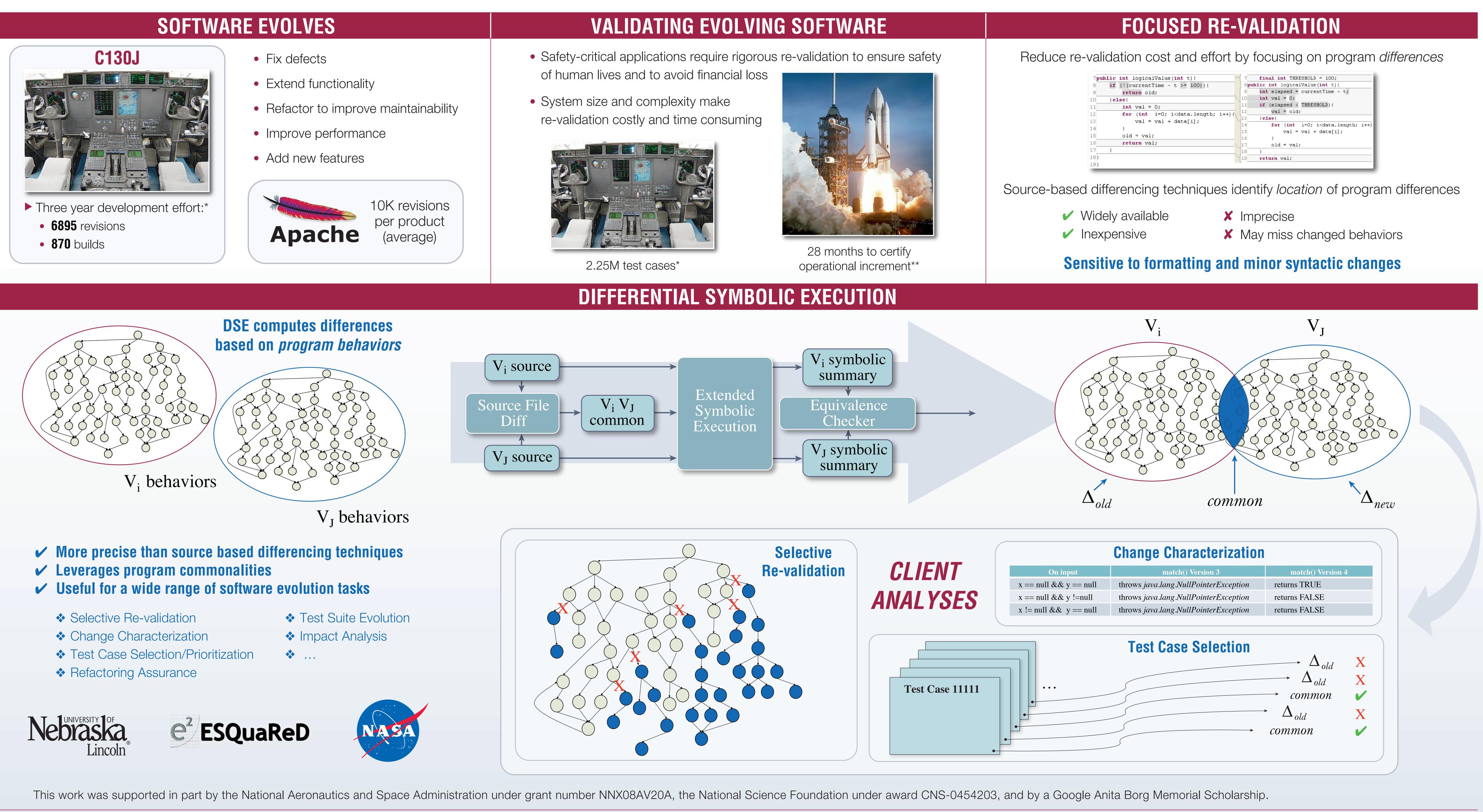
National Aeronautics and Space Administration

Differential Symbolic Execution (DSE) Suzette Person¹, Matthew B. Dwyer², Sebastian Elbaum², Corina Păsăreanu³ ¹NASA Langley Research Center, ²University of Nebraska-Lincoln, ³NASA Ames Research Center

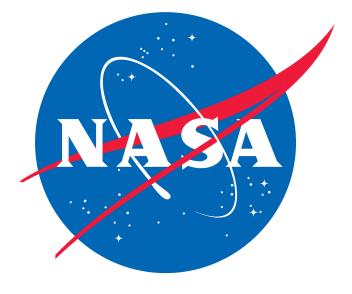






* Richard Conn, Stephen Traub, and Steven J. Chung. Avionics modernization and the C-130J software factory. CrossTalk: The Journal of Defense Software Engineering, September 2001.

** Marvin V. Zelkowitz and loana Rus. The role of independent verification and validation in maintaining a safety critical evolutionary software in a complex environment: The NASA space shuttle program. In Proceedings of the International Conference on Software Maintenance, page 118-126, 2001. Marvin V. Zelkowitz and Ioana Rus. Understanding IV & V in a safety critical and complex evolutionary environment: The NASA space shuttle program. In Proceedings of the 23rd International Conference on Software Engineering, pages 349-357, 2001.



{	7	<pre>final int THRESHOLD = 100;</pre>
.00)){	8	<pre>public int logicalValue(int t)(</pre>
	9	<pre>int elapsed = currentTime - t;</pre>
	10	int val = 0;
length; i++) {];	11	if (elapsed < THRESHOLD)(
	12	val = old;
	13)else(
	14	<pre>for (int i=0; i<data.length; i++)<="" pre=""></data.length;></pre>
	15	<pre>val = val + data[i];</pre>
	16	}
	17	old = val;
	18	}
4	19	return val;
	1	

Integrated Vehicle Health Management Project