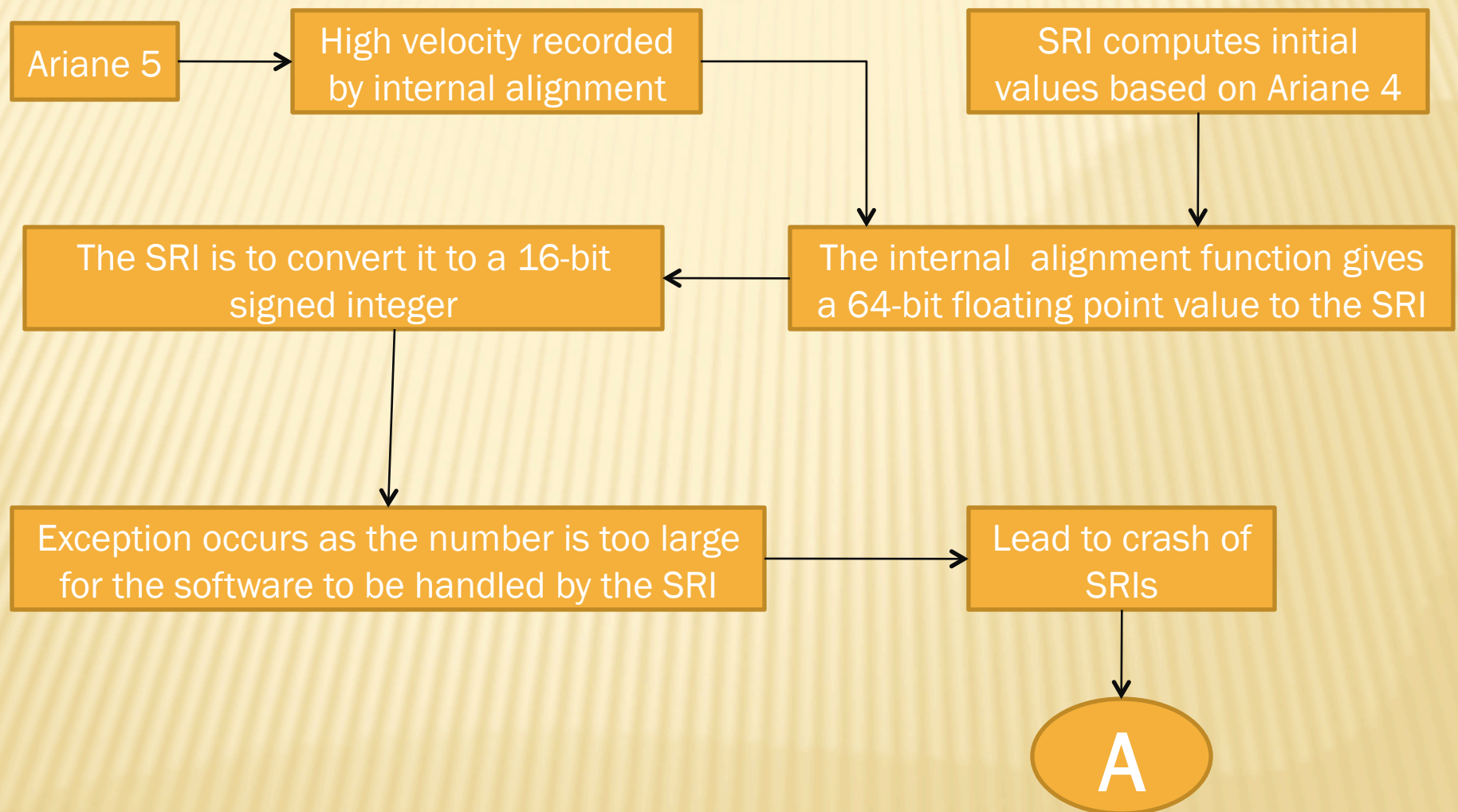


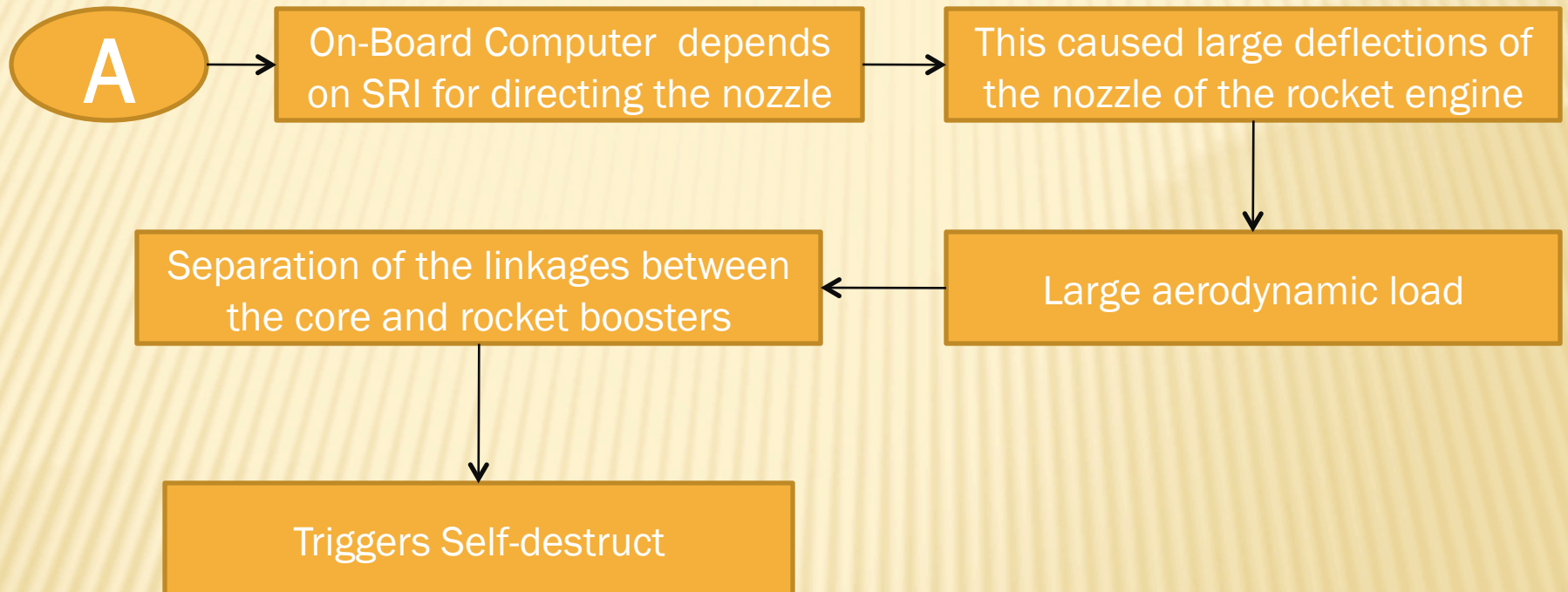
ARIANE 5 – STANLEY'S WORK

BACKGROUND

- ✗ Founded in 1980s
- ✗ Consist of more than 10 countries from the EU only.
- ✗ Primarily used for deploying commercial satellites in space
- ✗ Ariane 5 was a new addition to the Ariane family.
- ✗ Its loss lead to a destruction of approx. \$500 million

SEQUENCE OF EVENTS





ANALYSIS

- ✘ The failure of the flight program was because of the use of the code of Ariane 4.
- ✘ This initial computation value was taken into consideration by using the data of Ariane 4, where the maximum value was less than the space required for a 16-bit integer variable.
- ✘ The SRI and the flight software was tested separately.

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- ✘ Failure rate should have been low as:-
 - It had high redundancy
 - Accepted industry practice applied.
 - ✘ 9 cases of failure out of 188 launches, till today
 - ✘ Its main fault lies in not testing the system as a whole.