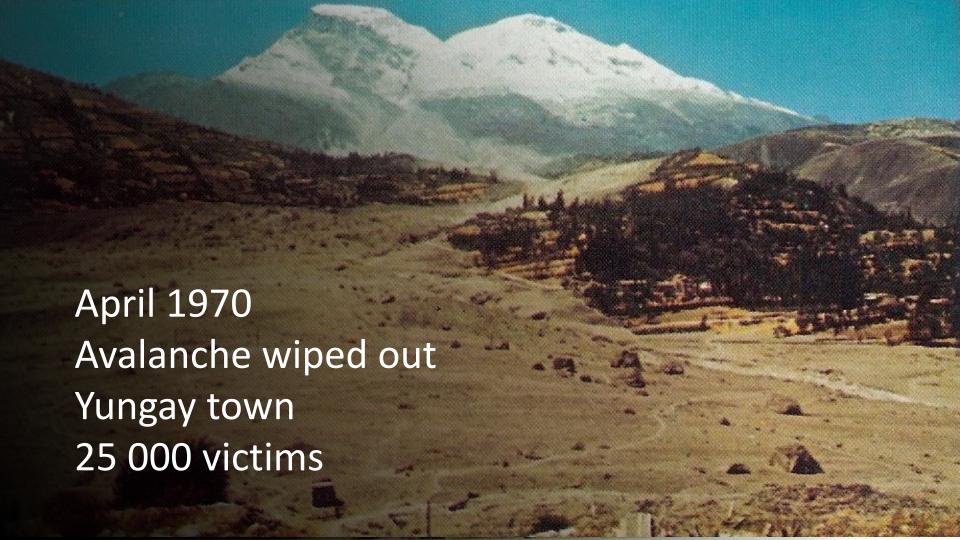
Reusable cruise rocket for urgent cargo delivery in case of disaster

Roman Mykhalchyshyn



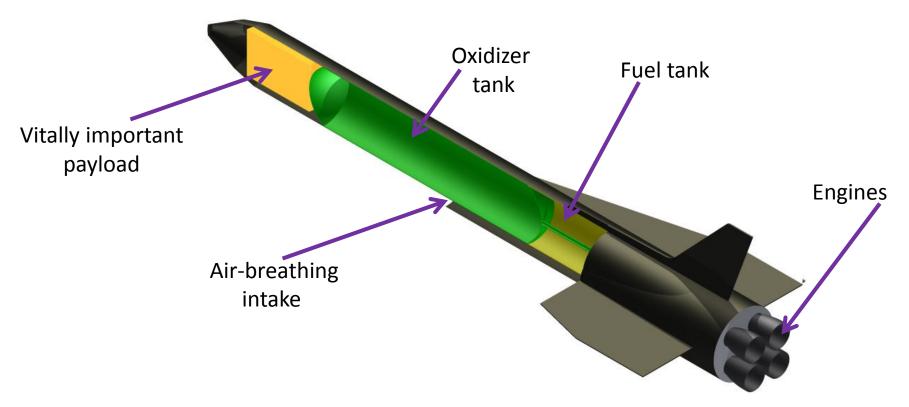




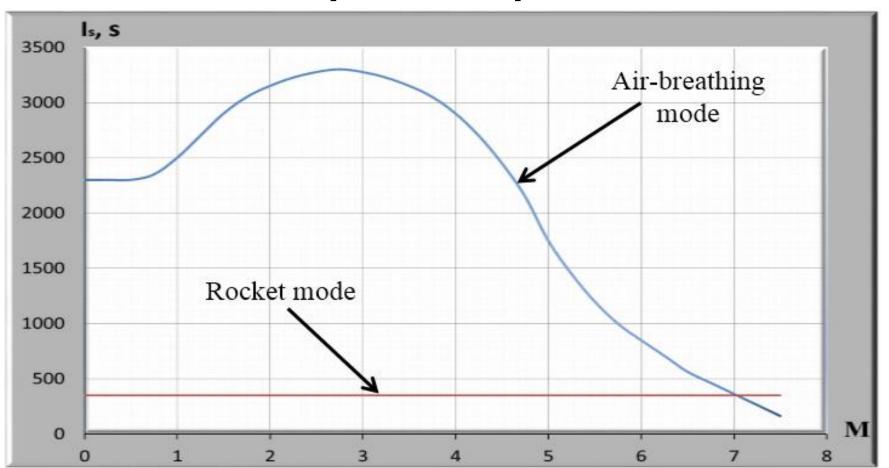
Number of people affected by natural disasters 600 million 500 million 400 million 300 million 200 million 100 million 1940 1960

Nowadays the fastest way to deliver cargo is rocket, but it was never used for saving people lives and first rockets were developed to sow death and destruction. Only over time, they became an indispensable means for space exploration.

Reusable cruise rocket for urgent cargo delivery in case of disaster



Specific impulse



Main characteristics:

rocket

Parameter

#	Parameter	Value
1.	Length	35 m
2.	Fuselage diameter:	2.6 m
3.	Wingspan:	7.6 m
4.	Empty weight	11 000 kg
5.	Propellant weight	58 000 kg
6.	Vital cargo weight	2 000 kg
7.	Maximum distance of cargo delivery	18 000 km
8.	Maximum Payload weight	3 000 kg
9.	Maximum Take-Off weight	80 000 kg

#	Parameter	Value
1.	Oxidizer	H ₂ O ₂ /Air
2.	Fuel	Kerosene
3.	Thrust (vac.)	1 970 kN
4.	Thrust (SL)	1 120 kN
5.	$\underline{I}_{\underline{sp}}$ (vac.)	330 sec
6.	$\underline{I}_{\underline{sp}}(SL)$	3 260 sec
7.	Height of transfer	30 km
	to rocket mode	



We are not able to control such environmental power, but we can use human ability to create for saving people lives

Thank you for attention!



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