change is inevitable as much as people
don't like change it's the only thing
that's constant in our lives we have to
transition from shuttle to a new future
which we're going to define which can be
even better
well the first time in my career working
on vehicles that will leave loran orbit
again we're looking at a vehicle that
can eventually carry a hundred and
thirty metric tonnes or so to low-earth
orbit that's a pretty big rocket it's on
the order of what we had back in the
Saturn program the heavy lift vehicle
allows us to put large masses in space

that are required to go to these destinations outside of low Earth orbit

and then we'll have this capsule that will go along with this for the for the trip to where we're going and it's based off of the Orion capsule that we were working on before it seats about four crew members and that's the basic capsule that will go out into space and this capsule will serve as a reentry vehicle back into the earth when we come home anything that we do in terms of space exploration is worth the expense
because it gives us an opportunity to to

explore and to investigate and to

experiment on things that we just have

no way to fathom here on earth when you

put things in the microgravity

environment you take them away from

gravity you learn a lot of different

things what we're doing is we're

investing in a broad portfolio like

technology some of those technologies

are risky some of them are panning out

others will not but in the end we'll

have the technological capabilities go

to places and to explore both with
robots and humans that we can't do today

what we've done is we've built kind of just a basic path or a basic architecture of all the destinations we could go and now we're starting to define all the capabilities to go through those destinations this is called a flexible path because what these capabilities will be able to go to multiple destinations such as back to the moon to near-earth objects to to Mars and its moons and to Lagrange points these are all places that we can feasibly go to with people in the in the foreseeable future we are in exploring
species NASA is leading

exploration effort for humankind as we go forward can we do this absolutely is it going to be a challenge you bet it is but I know that this team is capable of making it happen not only captain that happen in a superb way that sets a standard for everyone else I look forward to the days ahead when when we actually do send people out to do these places to touch them and and set foot on them and discover things we don't even have a coil of feature that allows us to explore beyond our home planet to seek
our destiny to learn what we couldn't
possibly learn if we were stuck in
low-earth orbit and that's what we're
off to
you