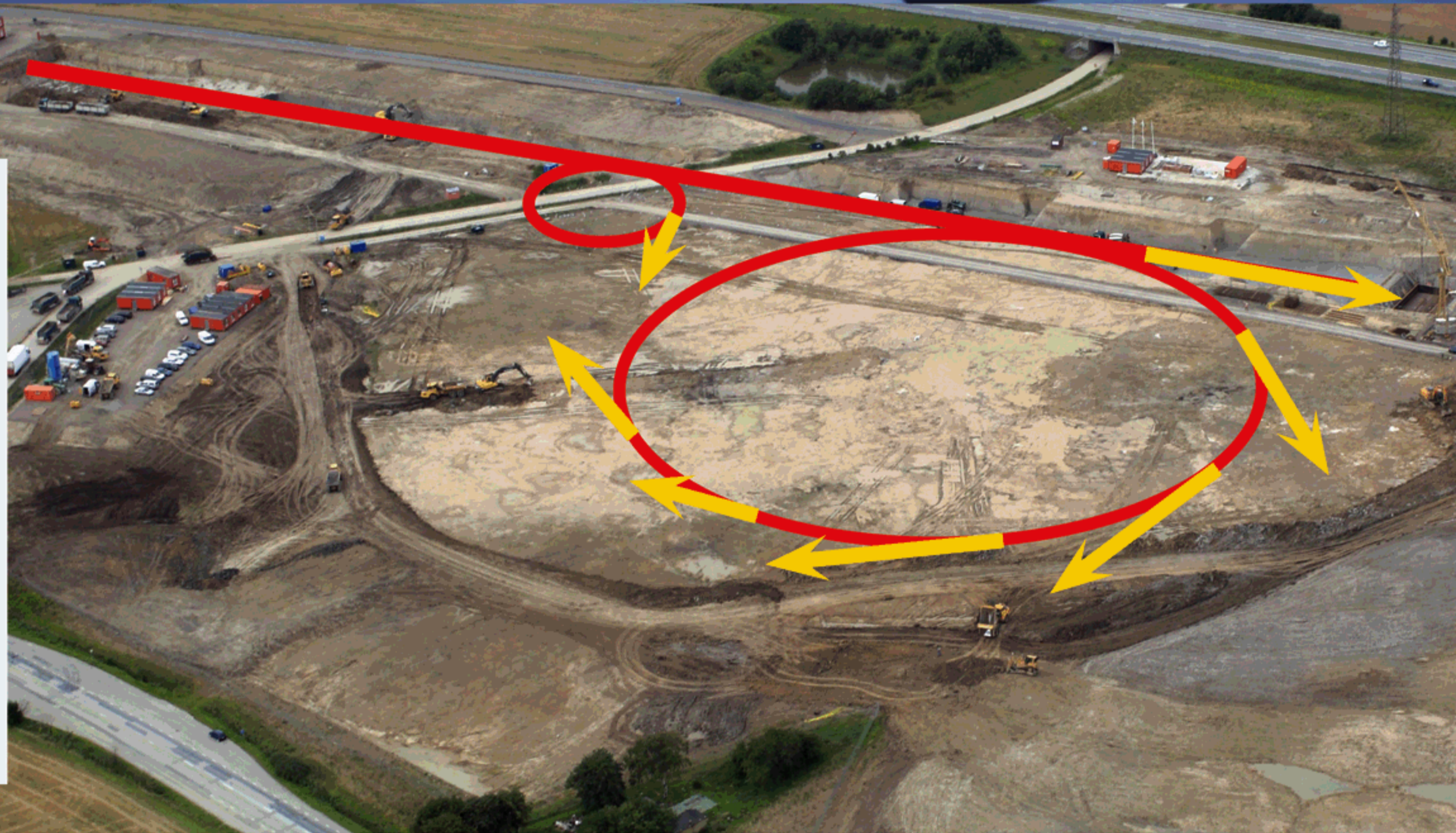


# MAX IV Laboratory – The Initial Beamline Program

## Initial Beamlines Financers

Knut and Alice Wallenberg Foundation  
Chalmers University of Technology  
Karolinska Institute  
KTH Royal Institute of Technology  
Linköping University  
Luleå University of Technology  
Lund University  
Stockholm University  
Swedish University of Agricultural Sciences  
Umeå University  
University of Gothenburg  
Uppsala University



The construction work of the new light source in Lund, MAX IV, has started.

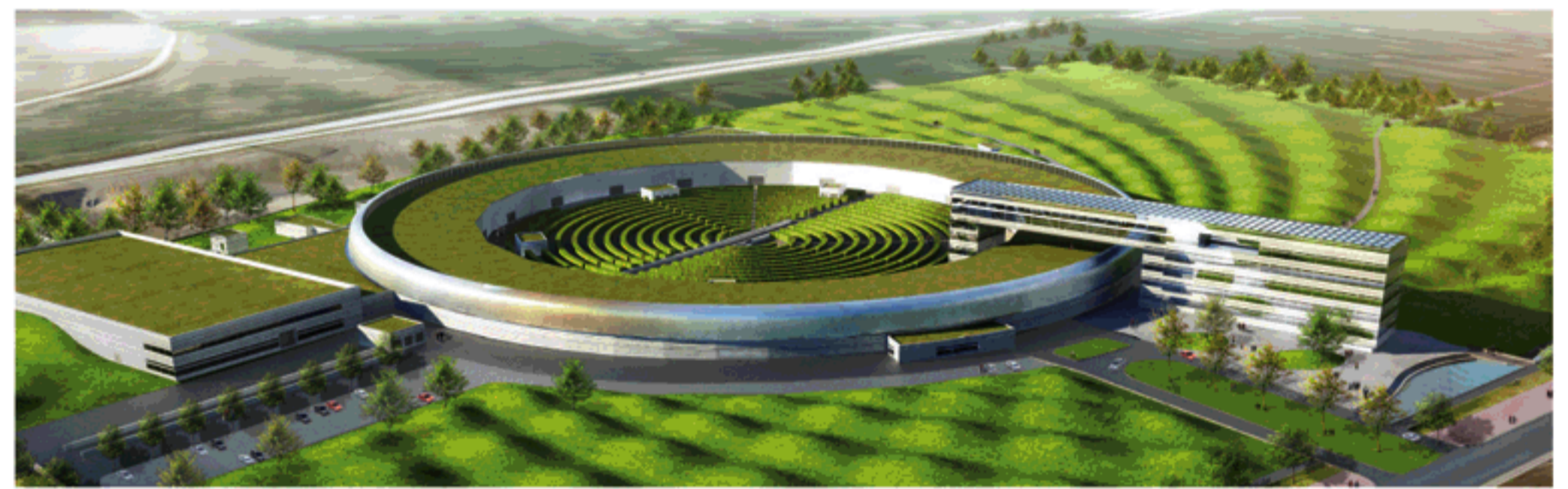
The casting of the 400 meters long, and 10 meters wide, Linac floor started in August. A newly developed alignment reference net has been mounted into the Linac floor and will also be installed in the floors of the two storage rings as well as in the beamline areas. The Linac tunnel itself has a height of up to four meters with walls that are two meters thick. During a week in early October, when concrete casting was extra intense, one truck arrived to the construction site every five minutes.

The foundations for the ring columns close to the Linac have been put in place. Preparatory ground work for the storage rings as well as for the underground transport passage is in progress.

The procurement of instruments and other equipment is proceeding according to plan. One example is the magnets for the 3.0 GeV ring that recently were procured. The technical design of the MAX IV cavity is tested in the MAX III ring.

## Beamlines

An initial programme containing seven beamlines at MAX IV has been defined and financed. In May 2011 there was a new application, and it was granted by Knut and Alice



Wallenberg Foundation, which will contribute with 400 million SEK (42 million EUR, 56 million USD), and Swedish universities with 160 million SEK (17 million EUR, 22 million USD).

## An initial programme containing seven beamlines has been defined

- BioMAX – a multipurpose high-throughput beamline for macromolecular crystallography
- VERITAS – a beamline for soft X-ray resonant inelastic X-ray scattering
- HIPPIE – a high-pressure electron spectroscopy beamline
- NANOMAX – an X-ray beamline for micro- and nanobeams
- SPF – a hard X-ray beamline at the short pulse facility
- ARPES – a beamline for angle-resolved photo electron spectroscopy
- XAS – a beamline for *in-situ* hard X-ray spectroscopy

[www.maxlab.lu.se](http://www.maxlab.lu.se)