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## “World's smallest” nativity scene of 0.3 mm, invisible to the naked eye, given to Pope Francis as Christmas gift by the President of Lithuania.

Created by Vilnius Gediminas Technical University's (VGTU)

#NanoJesus is nanoscale nativity. A 3D-printing resolution of an overall diameter of 0.3 mm, invisible to the naked eye. The baby Jesus is smaller than a human cell. Photo: VGTU. The entire nativity could sit on a human eyelash, and The scene is a replica 10,000 times smaller of the life-sized, real-world nativity located in Cathedral Square in downtown Vilnius, the capital of Lithuania.

[https://www.youtube.com/watch?v=Qk\\_rlVlw5-g#](https://www.youtube.com/watch?v=Qk_rlVlw5-g#)

The nano-scale nativity scene, which has already been registered in the Guinness World Records as the “world's smallest” nativity scene, has been given to Pope Francis as Christmas gift by the President of Lithuania, Dalia Grybauskaitė.

Image 1: Mrs.Dali Grybauskaitė, President of the Republic of Lithuania





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camel. The nativity scene was created by Vilnius Gediminas Technical University's (VGTU), Vilnius, Lithuanian creativity and innovation center Linkmenu Fabrikas together with scientists from the companies Fentika and 3D Ideja and in cooperation with the Vilnius Archdiocese, the capital's development agency Go Vilnius and the government's foreign investment promotion agency Invest Lithuania.

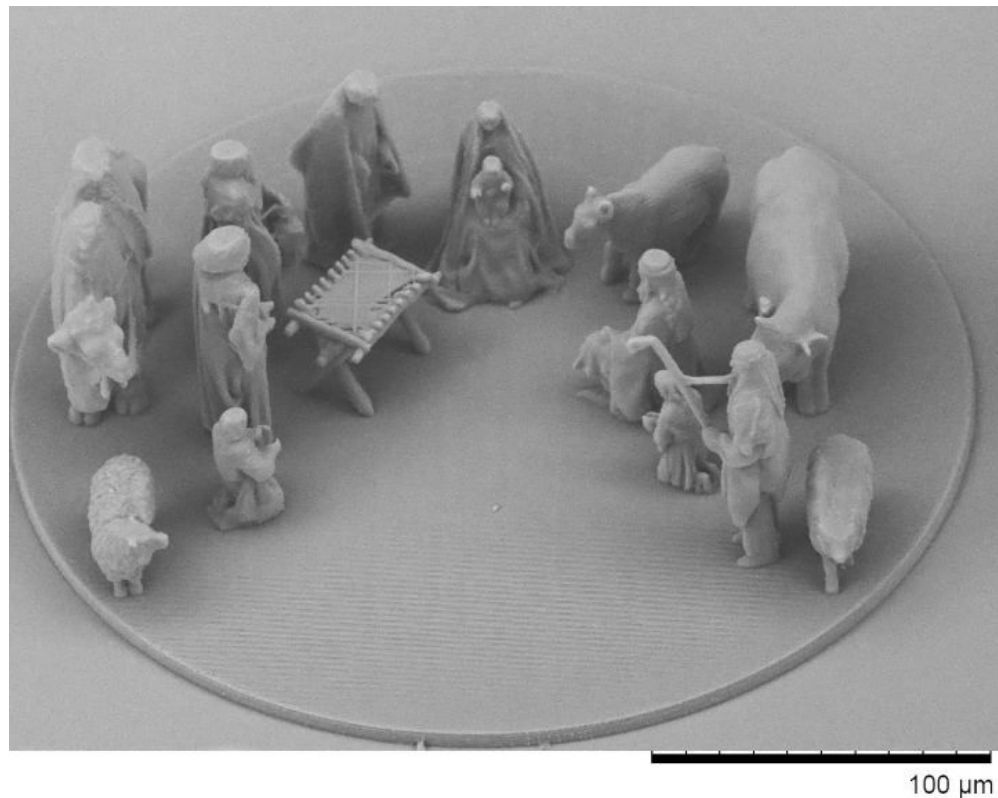


Image 2 :“Nano nativity scene” that was given to Pope Francis.(Photo: AP/ courtesy LinkMenu fabrikas)

College students and professors on the “Link Menu Fabrikas” heart of Vilnius Gediminas Technical College (VGTU) developed the undertaking together with native corporations. It took three months and the work of 30 people from VGTU, the Laser Research Center at Vilnius University, micro-fabrication company Fentika and 3D-technology company Ideja 3D to develop and to create the minuscule crib from a 3D scan of the life-size nativity scene, reducing it 10,000 times.



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Image 3 :The real Nativity located in Cathedral Square in downtown Vilnius, capital of Lithuania. (Photo: VGTU)

"The staff first scanned the life-sized sculptures within the Cathedral Sq. nativity earlier than making a digital mannequin of the scene. They then reproduced the scene, however smaller by an element of 10,000, and used a 3D printer to create it. "

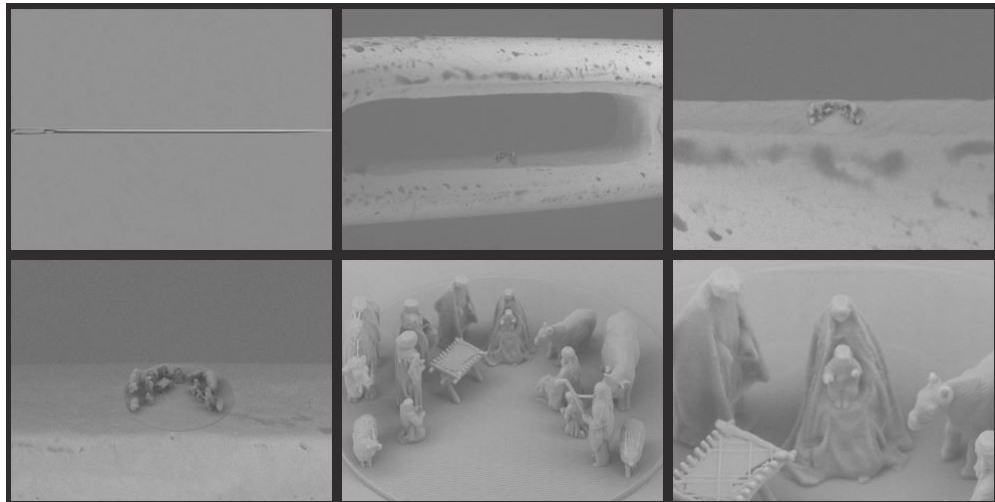


Image 4: Six image combination of the Nano nativity scene. The nativity scene present it positioned throughout the eye of a needle. (Photo: AP/ courtesy LinkMenu fabrikas)



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Image 5: VGTU researcher looking through a microscope the 3D scene of the nano scale nativity (Photo: VGTU)

Five copies of the nano scene have been made, with one going to Pope Francis, one of Lithuania's Presidential Palace and one other to the Vilnius Archdiocese. Two of the replicas will be made accessible to the general public.

[VIDEO: Lithuania welcomes Pope with the smallest gift ever #NanoJesus](#):

[https://www.youtube.com/watch?v=Qk\\_rIVlw5-g#](https://www.youtube.com/watch?v=Qk_rIVlw5-g#)

[VGTU http://www.vgtu.lt/](http://www.vgtu.lt/) Articles:

<https://www.15min.lt/mokslasit/straipsnis/laboratorija/lietuvoje-sukurta-maziausia-pasaulyje-prakartele-650-901108#>

<http://www.vgtu.lt/vgtu-naujienu-portalas/naujienos/vgtu-studentai-virtualioje-realybeje-prikelė-gedimino-sapna/246059?nid=290618>



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Image 6 :Prof. Fischnaller presenting the final results of the Virtual Reality application based on the “Nano Scale Nativity” to he authorities of the VGTU .In the back a hologram (created ad hoc for #NanoJesus project) with a 3D spinning nano-scale nativity scene – Prakartele. (Photo: VGTU)



Image 7 :Taking picture to the Hologram with the the 3D spinning nano-scale nativity scene. (Photo: VGTU )



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Image 8: Presenting VR application based on the "Nano Scale Nativity"

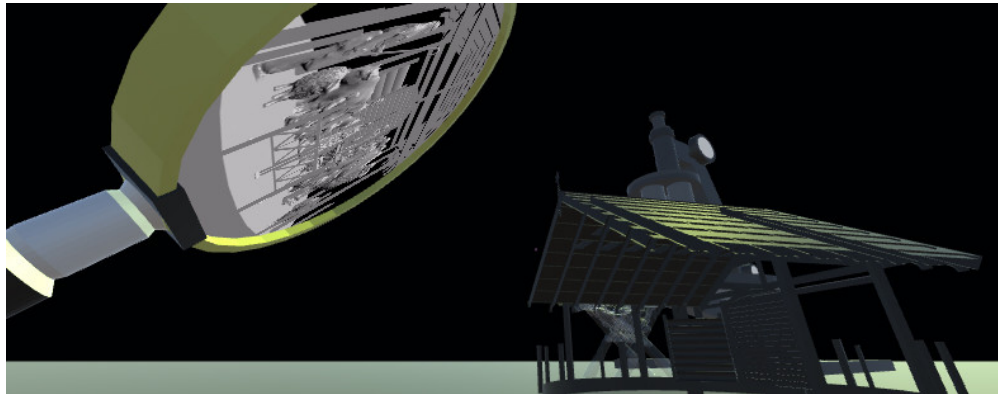


Image 9 : Snap - #Nano Jesus VR Application

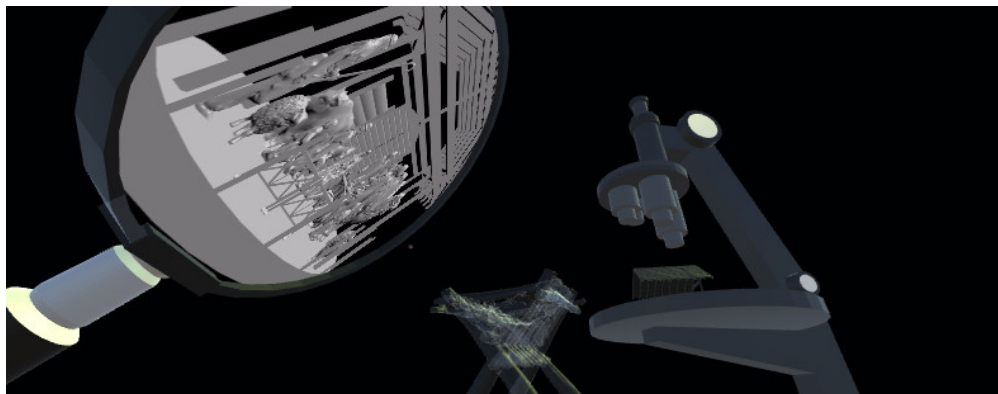


Image 10: Snap - #Nano Jesus VR Application



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Image 11: The Dean of from VGTU faculty of Creative Industries exploring with the HMD VIVE the VR application

Franz Fischnaller Responsibility: Collaboration with VGTU cross-disciplinary team. Teaching, applied research and development. Area: Advance visualization, virtual reality, holograms, 3D printing, high end projection display and systems, Digital content.

Nano Jesus cloud point with Pr.Fischnaller.



<https://www.linkedin.com/in/franz-fischnaller-693b79b/>

... #nanoJesus we had more than 350 000 video views (facebook + youtube) and more than 800 internati

USA Today (JAV): <https://www.usatoday.com/story/news/world/2017/12/22/lithuania-sends-pope-francis-w>

CNET (JAV): <https://www.google.lt/amp/s/www.cnet.com/google-amp/news/nanoscale-nativity-scene-nanoje>

dailymail.co.uk (UK): <http://www.dailymail.co.uk/wires/ap/article-5205603/F>

WashingtonPost (JAV): <https://www.washingtonpost.com/world/europe/pope-fran>

Yahoo.com (JAV): <https://www.yahoo.com/news/pope-francis-needs-microscope-e>

Bostonglobe.com (JAV): <https://www.bostonglobe.com/arts/2017/12/22/pope-fr>

Deutsche Welle (Germany): <http://www.dw.com/en/lithuania-sends-pope-francis>

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