



## Leica Geosystems

MundoGEO#Connect LatinAmerica 2013 | 18 a 20 de Junho | São Paulo (SP) Brasil

"Novos mercados e oportunidades para os profissionais e empresas de levantamentos de campo"

Miguel Menegusto – HDS South America

- when it has to be right



# Topografia com resposta rápida



Em campo:

- Integrar técnicas (GNSS + TPS + SCAN)
- Analisar os dados coletados
- Processamentos básicos (ex: volumes)

E no escritório... Produtos de Resposta Rápida:

- Imagens
- Distâncias
- Áreas
- Volumes

Produtos finais...

# Leica Nova MS50

## MergeTec



...combina as últimas tecnologias...

...imagens digitais

...3D laser scanner

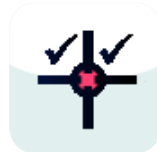
...funções de estações totais de  
alta produtividade

...conectividade GNSS



# Leica Nova MS50

## MergeTec



...conexões GNSS proporcionam...

- Fluxos de trabalho integrados GNSS
  - SmartStation
  - SmartPole
  - Dados totalmente integrados
- Tecnologia Leica Viva GNSS
  - SmartTrack
  - SmartCheck
  - Resultados confiáveis

# Leica Nova: Volumes

# Leica Nova: Túneis

# Leica Nova: Topografia & As-built



## Leica Nova: Mineração



# Leica Nova: Monitoramento



# Leica Nova: Detecção de Interferências

# Solução Leica Nova

## Fluxo de dados



Processamento básico integrado no campo  
(ex: volumes)



Opções de armazenamento  
Transmissão de dados  
Análise dos dados

Campo

Escritório



**3rd party SW & CAD solutions**

Processamento de dados de Estação total e scanner

**Leica Infinity**

Gerencia / Combina / reprocessa Resultados de escaneamentos

**Cyclone/CloudWorx**

Processamento de nuvens de pontos

**MultiWorx**

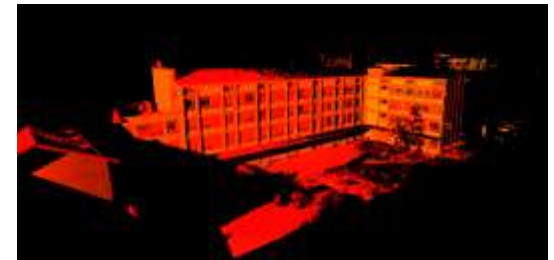
Plug-in para AutoCAD para Processamento básico

**GeoMos**

Processamento de nuvem de pontos para aplicações de monitoramento

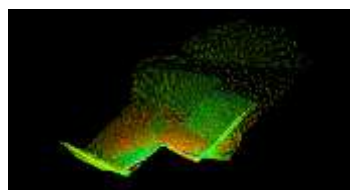
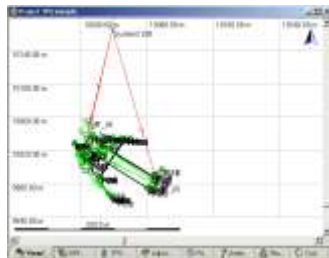
# Leica Nova MS50

Software de manipulação dos dados no escritório



# Leica Nova MS50

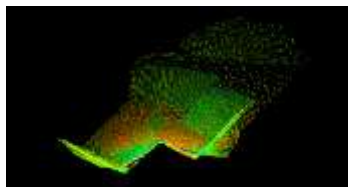
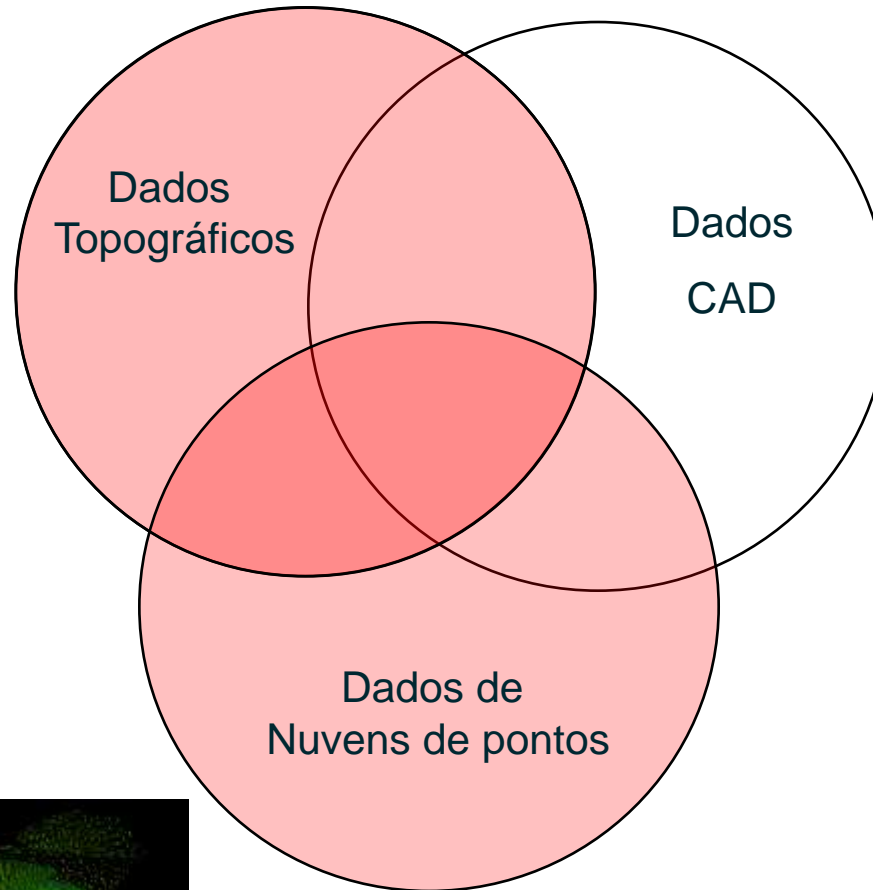
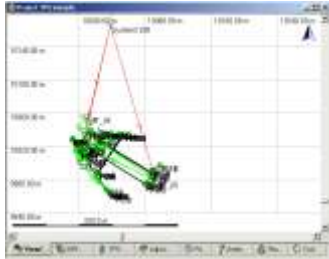
Software de manipulação dos dados no escritório



# Leica Nova MS50

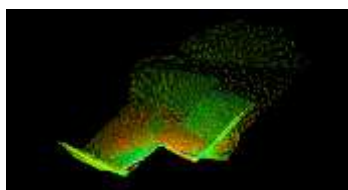
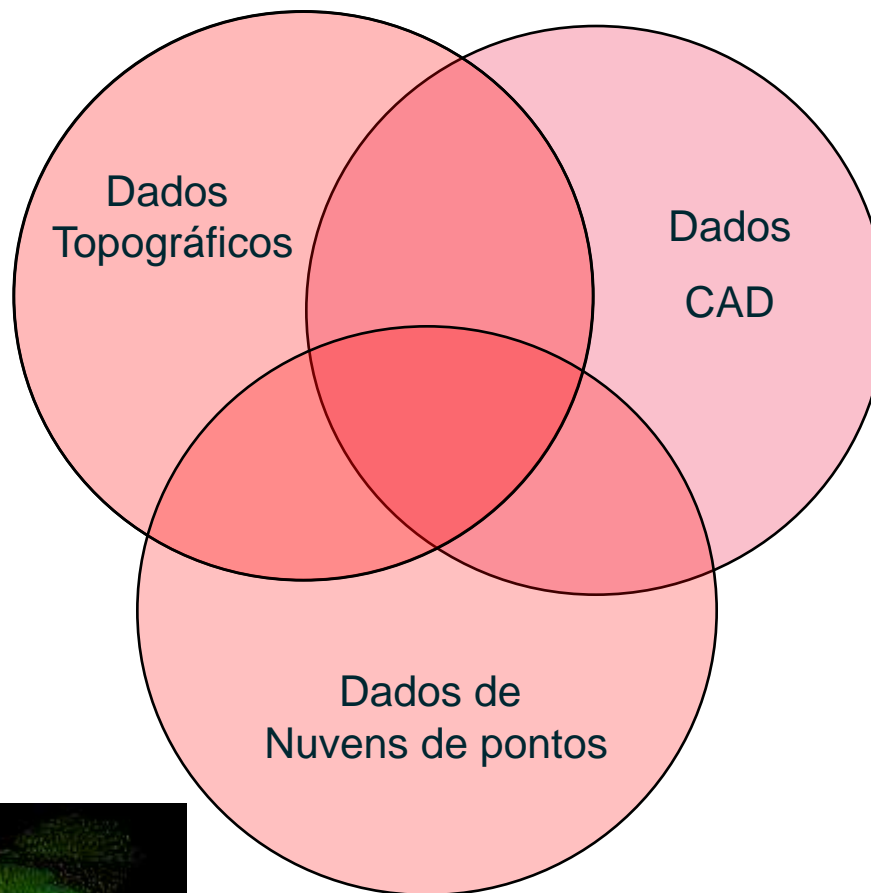
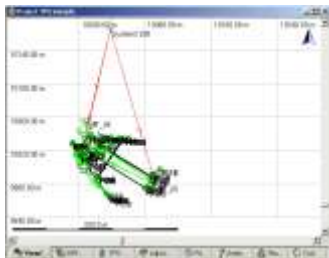
Software de manipulação dos dados no escritório

## Leica Infinity



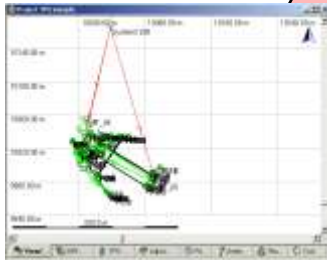
# Leica Nova MS50

Software de manipulação dos dados no escritório  
**MSCAD ou RMdata**



# Leica Nova MS50

Software de manipulação dos dados no escritório  
**Civil3D**

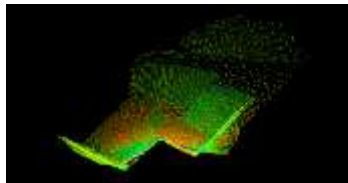


Dados  
Topográficos



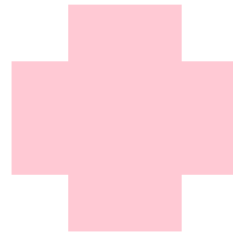
Dados  
CAD

Dados de  
Nuvens de pontos





# Cyclone & Cyclone II Topo

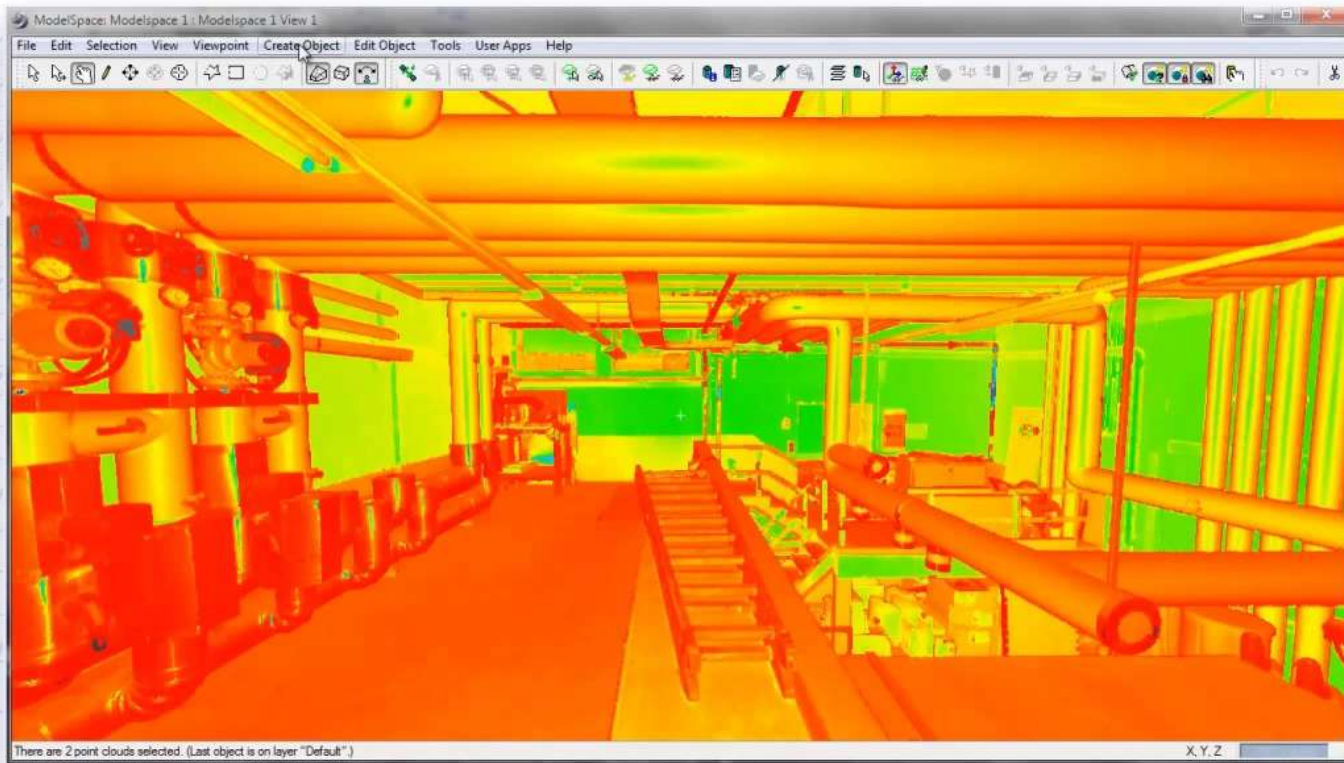


# Cyclone



## Auto Pipe Finder

- when it has to be right **Leica**  
Geosystems



- when it has to be right **Leica**  
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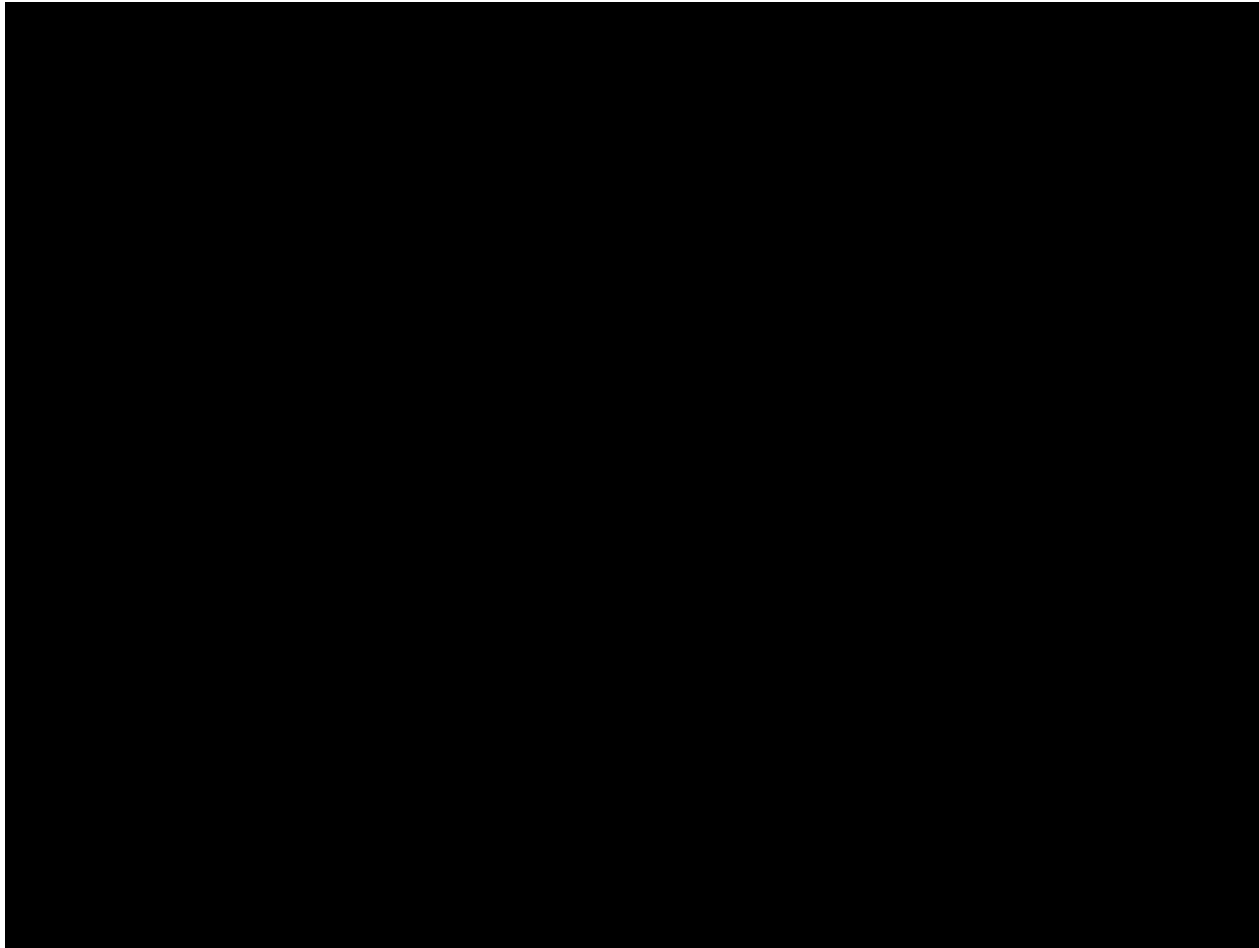
# Cyclone II TOPO



- Pontos regularmente espaçados no solo (pontos mais baixos)
- Pontos sobre meio-fio
- Pontos mais altos



# CADWorx FieldPipe



# 3DRESHAPER®

The 3D scanner software

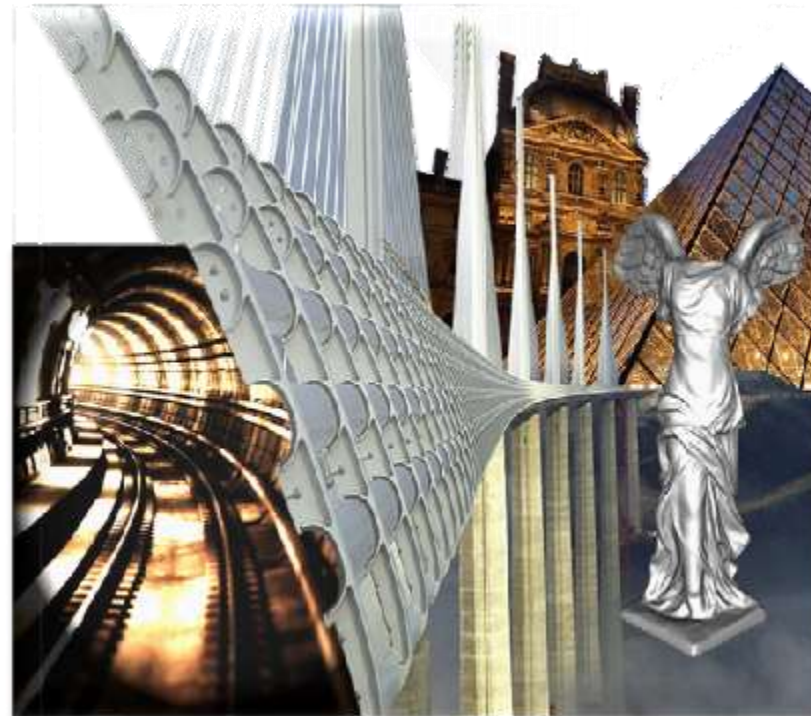
Processamento de Nuvem de Pontos

Modelagem 3D

Engenharia Reversa

Controle e Inspeção 3D

Textura

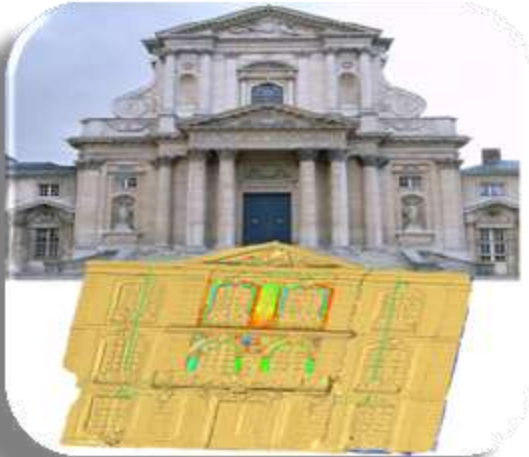
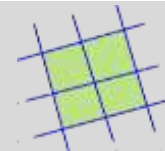
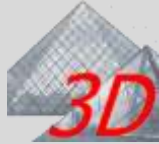


Engenharia Civil, Modelagem Digital de Terreno,  
Patrimônio e Topografia

- when it has to be right

**Leica**  
Geosystems

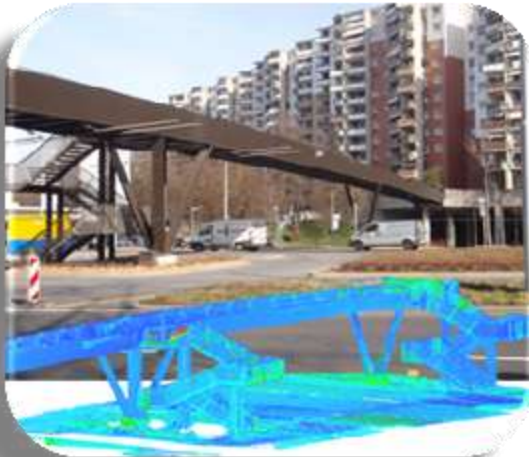




Arquitetura



Modelos Digitais de Terreno



Engenharia Civil

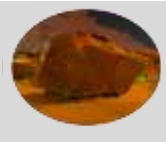


Patrimônio

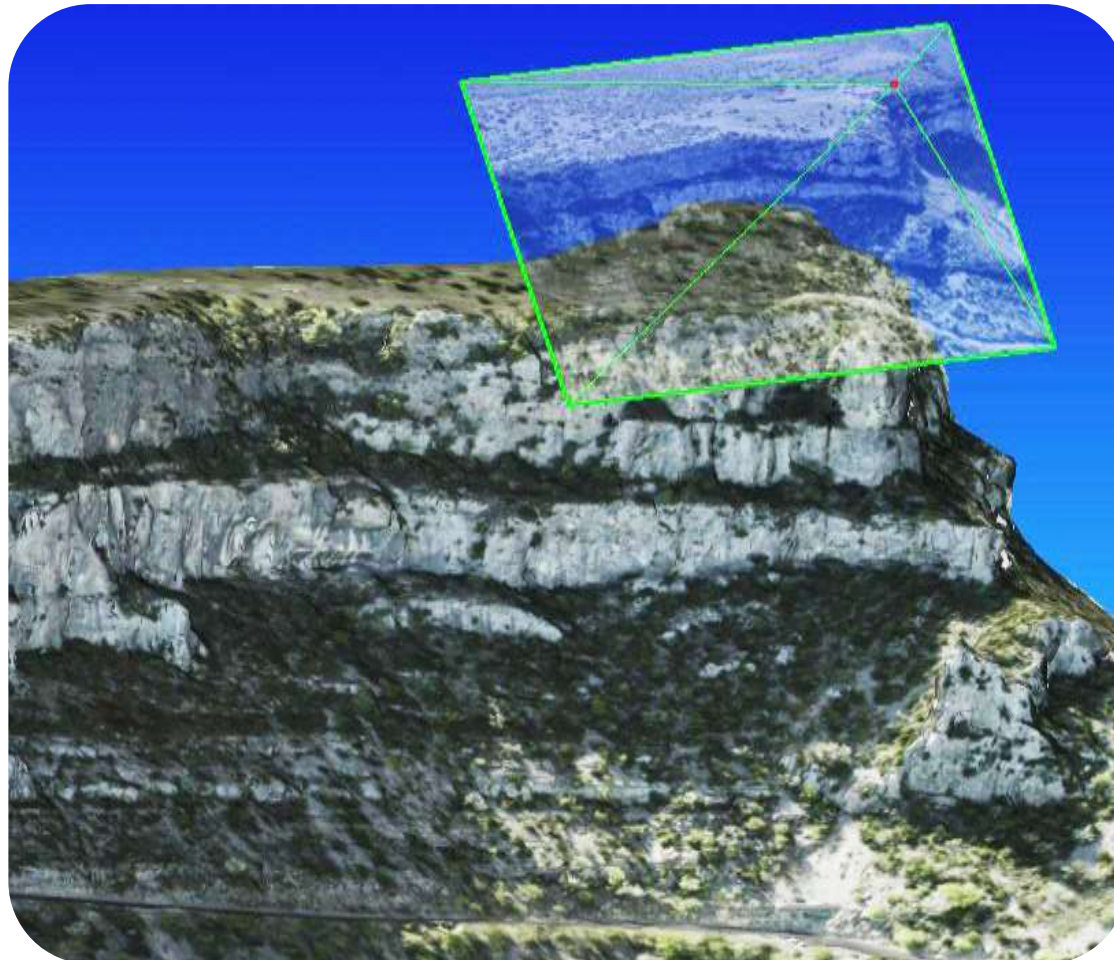


**Application 3DReshaper :**  
Architecture et Mesures 3D

**3DReshaper application :**  
Architecture and 3D Measurement



## Modelo Digital de Terreno & Textura







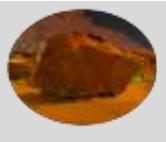
## Patrimônio

### 3D Modelling of historic buildings with 3DReshaper

With the kind authorization of the Downland Partnership (United Kingdom)

### Modélisation 3D de bâtiments historiques avec 3DReshaper

Avec l'aimable autorisation de Downland Partnership (Royaume-Uni)



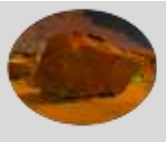
## Engenharia Civil

### Modélisation 3D d'Ouvrages d'art avec 3DReshaper

*Avec l'aimable autorisation du Service de la mensuration officielle de l'Etat  
de Genève et de MBC Ingéo SA*

### 3D Modeling of civil engineering structures with 3DReshaper

*With the kind authorization of the State of Geneva official mensuration  
service and MBC Ingéo SA*



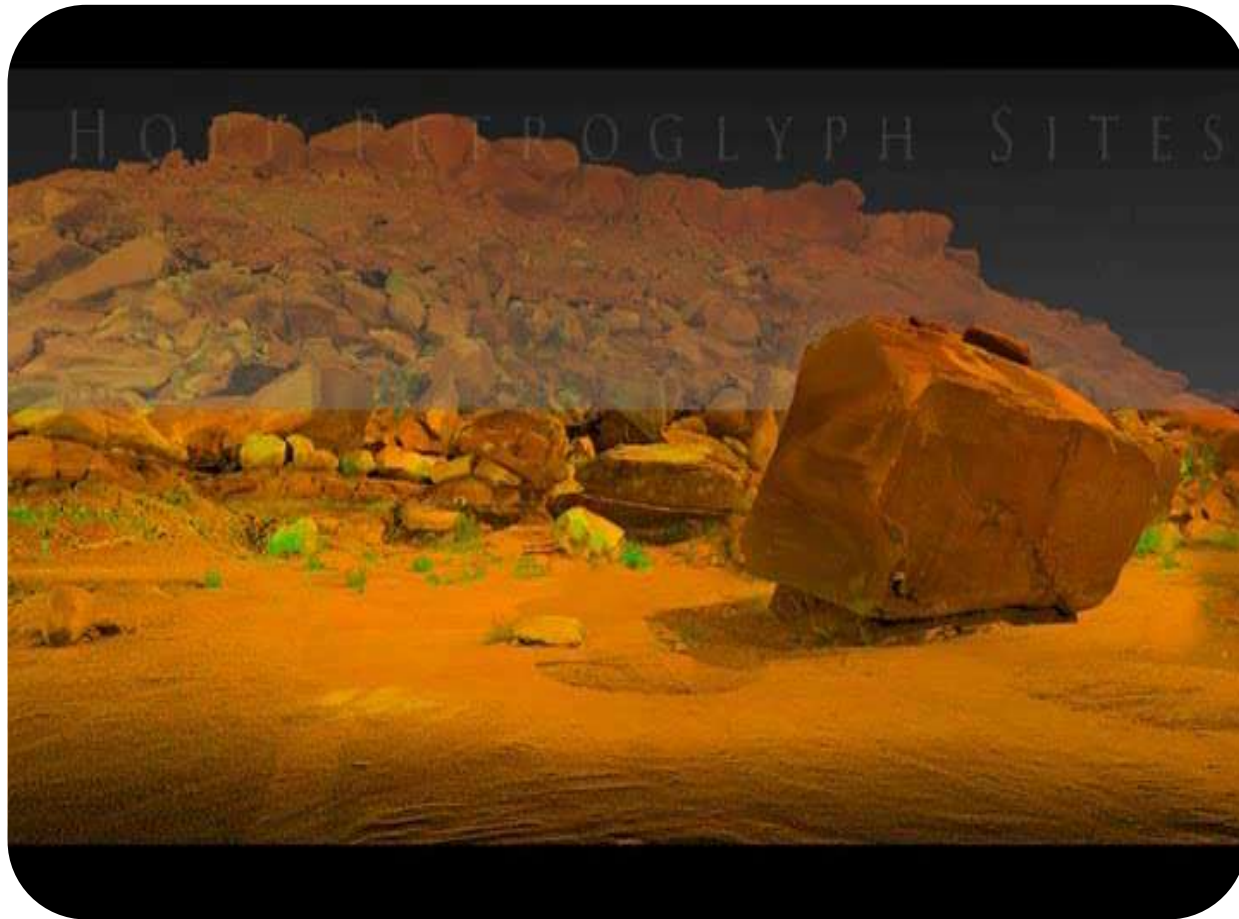
Estaleiros (engenharia reversa)

**Application 3DReshaper :**  
Construction Navale (avec l'aimable  
autorisation de TPLM 3D)

**3DReshaper application :**  
Shipbuilding (with the kind  
authorization of TPLM 3D)



Arqueologia



# Leica Nova MS50

## Obrigado!



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