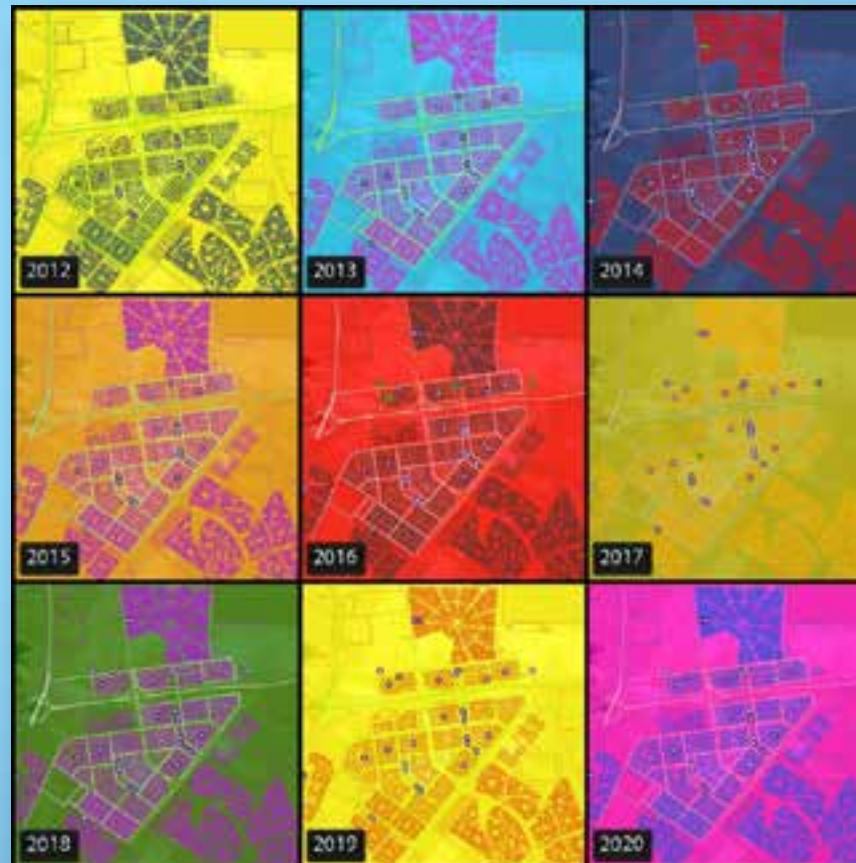


# GIS in Abu Dhabi Schools ... a Success Story

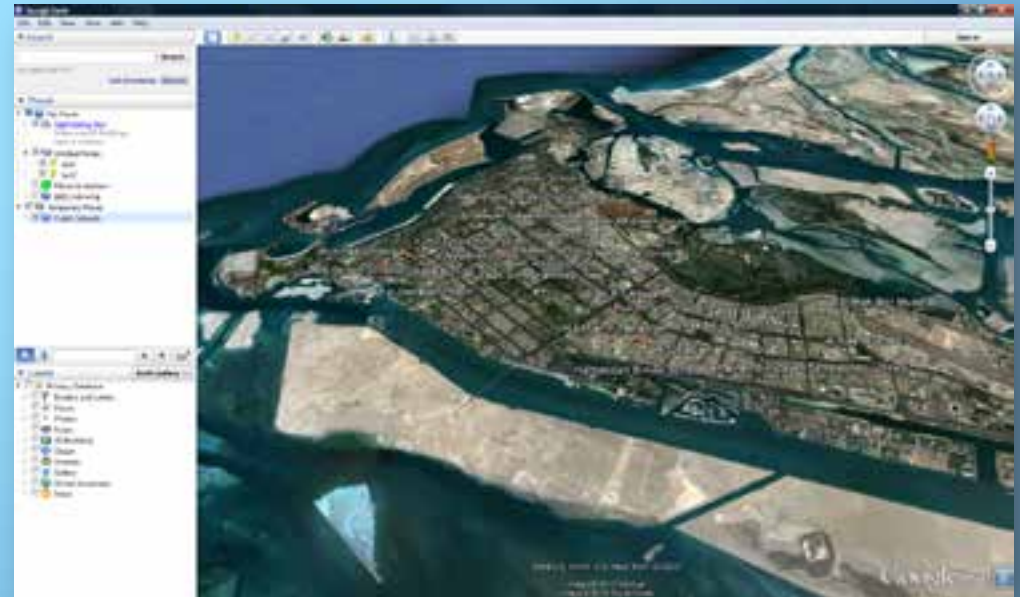




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# In the beginning...

- The need for GIS started by simple requirement: Locate all the schools on the map...



# Information...



- Although all schools were mapped on Google Earth, but very simple questions were not possible to answer...
  - Find all Male schools
  - Find all Cycle-2 schools
- Also more advanced spatial questions were evolving such as:
  - Which schools are near each other
  - What are the community facilities from a distance of 1 km from school x

**GIS was the answer...**



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# Evolution



- School Locations



- Simple Statistics
- Simple search



- Advanced Search
- School Reports
- Print Maps
- Communication
- Nearest facility



# Analysis



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# Analysis



# e-Services





# Collaboration Framework



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# Alignment with ADEC Strategy

Focus strategies	Focus Initiatives
Strategy 1.1 Qualified and capable teachers	1.1.2 Recruitment and retention 1.1.3 Professional development
Strategy 1.2 Capable and empowered school leaders	1.2.2 Professional development 1.2.3 Autonomy and mandate
Strategy 1.4 Engaged community supporting student learning	1.4.1 Parents
Strategy 2.1 Timely matching of human, financial and material resources to school needs	2.1.2 Quality of resources
Strategy 2.2 Closing the achievement gap	2.2.1 Classroom management/discipline 2.2.2 After-class support 2.2.3 In home assistance
Strategy 3.1 Cycle 2-3 curriculum linked to higher education requirements	3.1.1 Pre-NSM (eliminate foundation year) 3.1.2 Post-NSM (define C2-C3 curriculum)
Strategy 2.1 Ensure access through expanded capacity	2.1.2 Attract private school investors and operators

## GIS at Schools

- 1.1.3 Professional development
- 3.1.2 Post-NSM (define C2-C3 curriculum)

## Addressing Tool

- 2.1.2 Quality of resources
- 2.1.2 Attract private school investors and operators

## GIS Master-plan

- 2.1.2 Quality of resources
- 2.1.2 Attract private school investors and operators

## i-ADEC

- 1.4.1 Parents

## Land-bank

- 2.1.2 Quality of resources
- 2.1.2 Attract private school investors and operators

## Geo-Portal

- 2.1.2 Quality of resources

# ESRI & Abu Dhabi MoU

- “Under the terms of the agreement, both parties will work together on the Advancement of **Spatial Thinking**, GIS Planning and Monitoring...”
- The MoU provided a great opportunity to the education sector by spreading awareness, top management support, free licenses, consultancy and trainings.





# ADEC's New School Model (NSM) Strategy

## Objective

The GIS at School objective is to support the achievement of the ADEC NSM with effective use of digital learning tools that will create an inquiry-based learning environment to improve the students' special skills

## Expected Outcomes

- Improve learning through a student-centered approach
- Improve students' engagement, learning motivation, knowledge attainment and critical thinking abilities
- Skills students to collect, store, retrieve, manipulate, analyze and display geographical data-information
- Improve teacher proficiency and effectiveness
- Ensure high quality learning experience
- Engage students and involve wider community







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# The story of collaboration

## Key Achievements:

1. Trained More than 100 teachers and advisors
2. 12 Schools are enrolled in the pilot project
3. Implemented 5 exercises based on G 6 outcomes of science and Math
4. Established a portal for students and educators to share and analyze exercises
5. GIS became part of the curriculum.





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# Stud

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Information System (GIS) at School



Geographical  
Information  
System  
(GIS) at  
Schools  
forum



# Demo



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- Video
- [ADEC GIS Portal on AGOL](#)





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# Thank You

